



SnapCenter data protection cmdlets

SnapCenter cmdlets

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SnapCenter data protection cmdlets

Add-SmCloneDataSet

Creates a new clone dataset.

Syntax

```
Add-SmCloneDataSet [-DataSetName] <String> [-Description] <String> [-  
PluginCode] <PluginCode> [-Policies] <String> [-CloneToInstance]  
<String> [-Resources] <Hashtable[]> [-Suffix] <String> [-  
SchedulerCredentialName] <String> [-ArchivedLocators] <Hashtable[]> [-  
EnableEmail] <> [-EmailPreference] <SmEmailNotificationPreference> [-  
CreateRemoteClone] <Boolean> [-CustomSnapshotFormat] <String> [-  
CustomText] <String>
```

Detailed Description

Creates a new clone resource group and adds resources to it. Additionally, you can attach policies, set notification settings for Event Management System (EMS) logs, AutoSupport, and email notification. You can also specify clone options including clone server and instance, mount options, and attach a suffix to the clone database name. If you are cloning to a SnapMirror or SnapVault destination, specify the secondary location.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
DataSetName	Specifies the new clone dataset name.	true	true (ByPropertyName)	
Description	Provides an optional description of the resource group you are creating.	false	true (ByPropertyName)	
PluginCode	Specifies the plug-in code of the host for which you are creating a clone resource group. Valid values are SCSQL and SCO.	true	true (ByPropertyName)	
Policies	Specifies one or more policies you want to attach to the dataset. Multiple policies can be added as a comma-separated list.	false	true (ByPropertyName)	
CloneToInstance	Specifies the SQL Server instance that you want to clone to. All databases in the clone resource group are cloned to this instance.	true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
Resources	Specifies the resources you want to add to the clone resource group. You must provide the resource information in a hashtable, and it must contain the resource name and type, as well as the host on which the resource is located. For example, @{"Host"="localhost";"Type"="SQL Database";"Names"="Instance\Database"} Valid Type values are SQL Database and Oracle Database. You can include comma-separated values for Names.	true	true (ByPropertyName)	
Suffix	Provides a clone name suffix. All clones you create with one clone job are appended with the same suffix name.	false	true (ByPropertyName)	
SchedulerCredentialName		false	true (ByPropertyName)	
ArchivedLocators	Specifies in a hashtable the secondary storage system details for each unique primary storage system resource in the resource group. For example:- ArchivedLocators @{Primary="my_vs1:my_vol_iscsi";Secondary="my_vs1:my_vol_iscsi_SECONDARY"}	false	true (ByPropertyName)	
EnableEmail	Specifies whether email notification is enabled. The value is either True or False.	false	false	False
EmailPreference	Specifies when you will receive email notifications. Possible values: Always, Never, OnError, OnErrorOrWarning.	false	false	
CreateRemoteClone	Specifies whether or not you are creating a remote clone. The value is either True or False.	false	false	
CustomSnapshotFormat	Specifies the custom Snapshot copy naming format. For example, -CustomSnapshotFormat '\$CustomText\$ResourceGroup\$Policy\$HostName' -CustomText NetApp	false	true (ByPropertyName)	
CustomText	Specifies the custom text in the custom Snapshot copy naming format.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
EmailBody	Specifies the body of the email.	false	true (ByPropertyName)	
EmailFrom	Specifies the sender's email address.	true	true (ByPropertyName)	
EmailTo	Specifies the recipient's email address.	true	true (ByPropertyName)	
EmailSubject	Specifies the subject of the email.	true	true (ByPropertyName)	
EnableEmailAttachment	Specifies that you are adding an email attachment.	false	true (ByPropertyName)	

Examples

Example 1: Creating a new clone dataset from the primary and adding resources

```
Add-SmCloneDataSet -DataSetName payrollclone_dataset -Description
"Dataset for payroll database" -Policies clonefromprimary_ondemand
-Resources @{"Host"="vise-
f3.sddev.mycompany.com"; "Type"="SQLDatabases"; "Names"="vise-
f3\SQLExpress\payroll,vise-f3\SQLExpress\finance"} -Suffix __clone
-CloneToInstance vise-f3\sqlexpress -AutoAssignMountPoint
```

This example syntax creates a new clone dataset from the primary and adds resources.

```
Description : Dataset for payroll database
CreationTime: 8/5/2015 2:18:38 PM
ModificationTime: 8/5/2015 2:18:38 PM
EnableEmail :
EmailSMTPServer :
EmailFrom :
EmailTo :
EmailSubject:
EnableSysLog:
ProtectionGroupType : Backup
EnableAsupOnFailure :
Policies: {}
HostResourceMapping : {}
Configuration : SMCoreContracts.SmConfiguration
LastBackupStatus:
VerificationServer :
EmailBody :
EmailNotificationPreference :
VerificationServerInfo : SMCoreContracts.SmVerificationServerInfo
SchedulerSQLInstance:
CustomText :
CustomSnapshotFormat:
SearchResources : False
ByPassRunAs : False
IsCustomSnapshot:
MaintenanceStatus : Production
PluginProtectionGroupTypes : {SMSQL}
Name: payrollclone_dataset
Type: Group
Id : 3
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

Example 2: Creating a new clone from a secondary clone

```
Add-SmCloneDataSet -DataSetName clone_mdml_ds_mirror -Policies  
SMcln_full_logbkp_winsched -CloneToInstance "mva-m13-u25  
    " -Resources @{"Host"="mva-m13-u25";"Type"="SQL  
Database";"Names"="mva-m13-u25\TEST"} -ArchivedLocators  
@{Primary="rajr_vsl:rajr_vol_iscsi";Secondary=  
    "rajr_vsl:rajr_vol_iscsi_SECONDARY"} -Suffix "_RAJR"
```

This example syntax creates a new clone from a secondary clone using the -ArchivedLocators parameter.

Description :
CreationTime: 5/20/2015 11:10:04 AM
ModificationTime: 5/20/2015 11:10:04 AM
EnableEmail : False
EmailSMTPServer :
EmailFrom :
EmailTo :
EmailSubject:
EnableSysLog: False
ProtectionGroupType : Clone
EnableAsupOnFailure : False
Policies: {SMcln_full_logbkp_winsched}
HostResourceMapping : {}
Configuration : SMCoreContracts.SmCloneConfiguration
LastBackupStatus:
VerificationServer :
EmailBody :
EmailNotificationPreference : Always
VerificationServerInfo :
SchedulerSQLInstance:
CustomText :
CustomSnapshotFormat:
SearchResources : False
ByPassRunAs : False
IsCustomSnapshot: False
MaintenanceStatus : Production
Name: clone_mdml_ds_mirror
Type: Group
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0

Add-SmCloneJob

Creates a new clone job.

Syntax

```
Add-SmCloneJob [-CloneJobName] <String> [-PluginCode] <PluginCode> [-CloneToInstance] <String> [-CloneToHost] <String> [-Description] <String> [-ResourceGroupName] <String> [-Resources] <Hashtable[]> [-EnableAsupOnFailure] <Boolean> [-EnableSysLog] <Boolean> [-EnableEmail] <> [-EmailPreference] <SmEmailNotificationPreference>
```

Detailed Description

Creates a new clone job for the resource group. You can do the following to the clone job: add resources, define specific schedule policy, attach policies, set notification settings for Event Management System (EMS) logs, AutoSupport, send Email notification, specify clone options including clone type and instance, mount options, attach a suffix to the clone job name. Specify the secondary location if you are cloning to a SnapMirror or SnapVault destination.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
CloneJobName	Specifies the name of the clone job.	true	true (ByPropertyName)	
PluginCode	Specifies the plug-in code of the host for which you are creating a clone job. Valid values are SCSQL and SCO.	true	true (ByPropertyName)	
CloneToInstance	Specifies the SQL Server instance that you want to clone to. All databases in the clone resource group are cloned to this instance.	true	true (ByPropertyName)	
CloneToHost	Specifies the host to which you are cloning.	true	true (ByPropertyName)	
Description	Provides an optional description of the clone job you are creating.	false	true (ByPropertyName)	
ResourceGroupName	Provides an optional description of the clone job you are creating.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
Resources	Specifies the resources you want to add to the clone resource group. You must provide the resource information in a hashtable, and it must contain the resource name and type, as well as the host on which the resource is located. For example, @{"Host"="localhost";"Type"="SQL Database";"Names"="Instance\Database"} Valid Type values are SQL Database and Oracle Database. You can include comma-separated values for Names.	false	true (ByPropertyName)	
EnableAsupOnFailure	Specifies whether to enable or disable AutoSupport on failure.	false	true (ByPropertyName)	
EnableSysLog	Specifies whether to enable or disable syslog in the storage system.	false	true (ByPropertyName)	
EnableEmail	Specifies whether to enable or disable email notifications.	false	false	
EmailPreference	Specifies when you will receive email notifications. Possible values: Always, Never, OnError, OnErrorOrWarning.	false	false	
AutoAssignMountPoint	Specifies that the file system mount point is assigned automatically.	false	true (ByPropertyName)	
AssignMountPointUnderPath	Specifies that the file system mount point is created automatically under the specified mount path.	false	true (ByPropertyName)	
CloneType		false	true (ByPropertyName)	
Suffix	Provides a clone job name suffix. The clone job you create is appended with the suffix name.	false	true (ByPropertyName)	
ArchivedLocators	Specifies the secondary storage system details for each of the unique primary storage system resource in the dataset. For example: -ArchivedLocators @{"Primary"="my_vs1:my_vol_iscsi";Secondary="my_vs1:my_vol_iscsi_SECONDARY"}	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
CustomSnapshotFormat	Specifies the custom Snapshot copy naming format. For example, -CustomSnapshotFormat '\$CustomText\$ResourceGroup\$Policy\$HostName' -CustomText NetApp	false	true (ByPropertyName)	
CustomText	Specifies the custom text in the custom Snapshot copy naming format.	false	true (ByPropertyName)	
SchedulerCredentialName		false	true (ByPropertyName)	
Schedules	Specifies in a hashtable the schedule for the clone job, including the policy name and the schedule type. For example, -Schedules @{ "PolicyName"="BackupPolicy"; "ScheduleType"="OneTime" } You can specify multiple schedules in a comma-separated list.	false	true (ByPropertyName)	
SchedulerType	Specifies the scheduler type. Possible values are Windows, SQL, and None.	false	true (ByPropertyName)	
SchedulerInstance		false	true (ByPropertyName)	
DeleteCloneOnScheduleExpiry	Specifies that the clone be deleted when the scheduled expiration time is reached.	false	true (ByPropertyName)	
PreScriptCommand	Prescript file UNC path with proper privileges for scripts accessibility, ('\\server\share\path\file' for Universal Naming Convention (UNC) names).	false	true (ByPropertyName)	
PreScriptArguments	Specifies the prescript arguments.	false	true (ByPropertyName)	
PostScriptCommand	Postscript file UNC path with proper privileges for scripts accessibility, ('\\server\share\path\file' for Universal Naming Convention (UNC) names).	false	true (ByPropertyName)	
PostScriptArguments	Specifies postscript arguments.	false	true (ByPropertyName)	
ScriptTimeout	Specifies the number of seconds before a script times out. The default is 60 seconds.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
EmailBody	Specifies the body of the email.	false	true (ByPropertyName)	
EmailFrom	Specifies the sender's email address.	true	true (ByPropertyName)	
EmailTo	Specifies the recipient's email address.	true	true (ByPropertyName)	
EmailSubject	Specifies the subject of the email.	true	true (ByPropertyName)	
EnableEmailAttachment	Specifies whether you are adding an email attachment.	false	true (ByPropertyName)	

Examples

Example 1: Adding a new clone job

```
Add-SmCloneJob -CloneJobName TestCLM1 -PluginCode SCSQL -CloneToInstance
"CsmDevSuman\INST1" -CloneToHost host.example.com -Description 'testing
clm'
    -Resources @{"Host"="CsmDevSuman";"Type"="SQL
Database";"Names"="CsmDevSuman\INST1\TrialDB"} -Suffix "_Clone_July_12"
-AutoAssignMountPoint
```

Example 2: Creating a clone job with hourly schedule policy

```
Add-SmCloneJob -Resources @{"Host"="Cluster50176661";"Type"="SQL
Database";"Names"="SQL12050176661\CLUSINST1\Cluster50176661_MDML_4"}
-CloneJobName 'CloneJob_08767' -PluginCode 'SCSQL' -CloneToInstance
'SQL12050176661\CLUSINST1' -CloneToHost 'Cluster50176661'
-autoassignmountpoint -suffix '_Clone_08767' -schedulingtype 'Windows'
-schedules @{"ScheduleType"="Hourly";"StartTime"="05/30/2019 6:00
AM";"EndTime"="05/30/2019 8:57 AM";"RepeatTask_Every_Hour"="01:00"}
```

Example 3: Creating a clone job with daily schedule policy

```
Add-SmCloneJob -Resources @{"Host"="Cluster50176661";"Type"="SQL
Database";"Names"="SQL12050176661\CLUSINST1\Cluster50176661_MDSL_4"}
-CloneJobName 'CloneJob_00970' -PluginCode 'SCSQL' -CloneToInstance
'SQL12050176661\CLUSINST1' -CloneToHost 'Cluster50176661' -suffix
'_Clone_00970' -archivedlocators
@{Primary="10.225.85.167:QA12050176661_1_MDSL_Data_Log_Vol";Secondary="C_8
4_173_CIT_SVM_2:QA12050176661_1_MDSL_Data_Log_Vol_SV"} -schedulingtype
'Windows' -assignmountpointunderpath
'D:\MSSQL11.CLUSINST1\MSSQL\DATA\Clone10971' -schedules
@{"ScheduleType"="Daily";"StartTime"="05/30/2019 6:25
AM";"EndTime"="05/30/2019 9:22 AM";"daysInterval"="1"} -clonetype 1
```

Example 4: Creating a clone job with weekly schedule policy

```
Add-SmCloneJob -Resources @{"Host"="Cluster50176661";"Type"="SQL
Database";"Names"="SQL12050176661\CLUSINST1\Cluster50176661_MDML_4"}
-CloneJobName 'CloneJob_54758' -PluginCode 'SCSQL' -CloneToInstance
'SQL12050176661\CLUSINST1' -CloneToHost 'Cluster50176661'
-autoassignmountpoint -suffix '_Clone_54758' -schedulingtype 'Windows'
-schedules @{"ScheduleType"="Weekly";"StartTime"="05/30/2019 6:30
AM";"EndTime"="05/30/2019 9:27 AM";"DaysOfTheWeek"="Thursday,Saturday"}
```

Example 5: Creating a clone job with monthly schedule policy

```
Add-SmCloneJob -Resources @{"Host"="Cluster50176661";"Type"="SQL
Database";"Names"="SQL12050176661\CLUSINST1\Cluster50176661_MDML_4"}
-CloneJobName 'CloneJob_02494' -PluginCode 'SCSQL' -CloneToInstance
'SQL12050176661\CLUSINST1' -CloneToHost 'Cluster50176661' -suffix
'_Clone_02494' -assignmountpointunderpath
'D:\MSSQL11.CLUSINST1\MSSQL\DATA\Clone10971' -schedulingtype 'Windows'
-schedules @{"ScheduleType"="Monthly";"StartTime"="05/30/2019 6:40
AM";"EndTime"="05/30/2019 9:37
AM";"MonthsofTheYear"="May, June";"DaysoftheMonth"="30,4,25"}
```

Add-SmCredential

Register the credential with SnapCenter Server.

Syntax

```
Add-SmCredential [-Name] <String> [-Type] <SmAuthMode> [-ClientSecret]
<SecureString> [-TenantId] <String> [-ClientId] <String> [-
InstanceName] <String> [-Credential] <PSCredential> [-
EnableSudoPrivileges] <Boolean> [-AuthenticationType]
<SmAuthenticationType> [-Force] <>
```

Detailed Description

Register the credential with SnapCenter Server. The credentials can be for other plug-ins or for other NetApp cloud storage.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Specifies the name of the Credential Account.	true	true (ByPropertyName)	
Type	Specifies the authentication mode.	false	true (ByPropertyName)	
ClientSecret	Specifies the Azure NetApp client secret.	false	true (ByPropertyName)	
TenantId	Specifies the Azure NetApp tenant ID.	false	true (ByPropertyName)	
ClientId	Specifies the Azure NetApp client ID.	false	true (ByPropertyName)	
InstanceName		false	true (ByPropertyName)	
Credential		true	true (ByPropertyName)	
EnableSudoPrivileges		false	true (ByPropertyName)	
Force		false	true (ByPropertyName)	

Examples

Example 1: Create Credential

```
Add-SmCredential -Name RunAs1 -Type Windows -Credential $cred
```

Example 2: Create Azure Credential

```
$clientSecretText = 'd7c7656b-a07a-4es5-b19e-12376bdef493';
$secureString = ConvertTo-SecureString $clientSecretText -AsPlainText
-Force;
Add-SmCredential -Name azure1 -Type AzureCredential -ClientSecret
$secureString -TenantId c8f6a9b7-8cc7-445b-ac6f-f6e8e13f1ebb -ClientId
ecadcfb7-b4f1-425f-ae93-bb1ee6084475
```

Note: Add-SmCredential with AzureCredential requires the following mandatory parameters ClientSecret, TenantId, and ClientId.

Example 3: Create AIX Credential

```
Add-SmCredential -Name RunAs2 -CredentialType AIX -Credential $cred
```

Example 4: Create Linux credential with SSH based authentication

```
Add-SmCredential -Name linuxSshBasedRunAs -Type Linux -AuthenticationType
SshKeyBased -Username scanf -SSHPrivateKeyPath
"C:\Users\Administrator\passwordfile.txt" -EnableSudoPrivileges $true
```

Note: Add-SmCredential with AuthenticationType as "SshKeyBased" requires the following mandatory parameters Username and SSHPrivateKeyPath(file path which contains private SSH key). By default AuthenticationType is "PasswordBased" which continues to take username and password.

Add-SmDomain

Register a domain with SnapCenter server.

Syntax

```
Add-SmDomain [-Name] <String> [-Protocol] <String> [-FQDN] <String>
[-IPAddresses] <String> [-DCHostNames] <String>
```

Detailed Description

Register a trusted or untrusted domain with SnapCenter Server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	NETBIOS Name of the domain to be registered. The domain name must not contain special characters like forward slash (/), backslash (\), colon (:), asterisk (*), question mark (?), double quotation mark ("), left angle bracket (<), right angle bracket (>), and vertical bar (). The domain name must not begin with the special character dot (.).	true	true (ByPropertyName)	
Protocol	Protocol of the domain to be registered.By default the protocol value is LDAP. You can specify LDAPS to use the secured windows active directory communication.	false	true (ByPropertyName)	
FQDN	FQDN of the domain to be registered.Used for both LDAP and LDAPS protocol, when you provide the correct FQDN while adding or modifying the domain with LDAP protocol, the domain resolves and the IP address that you might have entered using the IPAddresses parameter is not stored.	true	true (ByPropertyName)	
IPAddresses	Domain IP Addresses of the disjoint domain to be registered.When you provide the correct FQDN while adding or modifying the domain, the domain resolves and the IP address is not stored.	false	true (ByPropertyName)	
DCHostNames	Domain host name of the disjoint or the same domain to be registered.For LDAPS protocol, DCHostNames is a mandatory parameter. The IP address should resolve and the user should not be permitted to manually provide the IP address.	false	true (ByPropertyName)	

Examples

Example 1: Register a trusted domain with SnapCenter Server with LDAP Protocol.

```
Add-SmDomain -Name ad12 -FQDN ad12.test.netapp.com
```

```
Added the domain ad12.  
Id : 0  
Name : ad12  
DomainFQDN : ad12.test.netapp.com  
DCHostIPAddresses :  
TrustedDomains :  
CreatedOn :  
ModifiedOn :  
Port : 389  
Protocol : LDAP  
DCHostNames:
```

Example 2: Register an untrusted domain with SnapCenter Server with LDAP Protocol.

```
Add-SmDomain -Name ad16 -FQDN ad16.test.netapp.com -IPAddresses  
192.160.0.44
```

```
Added the domain ad16.  
Id : 0  
Name : ad16  
DomainFQDN : ad16.test.netapp.com  
DCHostIPAddresses : 192.160.0.44  
TrustedDomains :  
CreatedOn :  
ModifiedOn :  
Port : 389  
Protocol : LDAP  
DCHostNames:
```

Example 3: Register a trusted domain with SnapCenter Server with LDAPS Protocol.

```
Add-SmDomain -Name ad19 -FQDN ad19.test.netapp.com -DCHostNames  
WS9K19DC.ad19.test.netapp.com -Protocol LDAPS
```

```
Added the domain ad19.
Id : 0
Name : ad19
DomainFQDN : ad19.test.netapp.com
DCHostIPAddresses :
TrustedDomains :
CreatedOn :
ModifiedOn :
Port : 636
Protocol : LDAPS
DCHostNames: WS9K19DC.ad19.test.netapp.com
```

Add-SmGroup

Adds an AD group or local group to SnapCenter.

Syntax

```
Add-SmGroup [-Domain] <String> [-Group] <SmString> [-RoleNames]
<SmString>
```

Detailed Description

Adds an Active Directory group or local group to SnapCenter.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Domain	The domain to which the group belongs to. Local group should skip this parameter.	false	true (ByPropertyName)	
Group	Single group or list of groups belonging to the same domain or local host.	true	true (ByPropertyName)	
RoleNames	Single or list of existing pre-canned or custom roles to which group should be added to. At least one role should be specified while adding the group.	true	true (ByPropertyName)	

Examples

Example 1: Adding a single group

```
Add-SmGroup -Group group1 -RoleNames role1,role2 -Domain domain1
```

Example 2: Adding multiple groups of same domain

```
Add-SmGroup -Group group1,group2 -RoleNames role1 -Domain domain1
```

Example 3: Adding local group

```
Add-SmGroup -Group LocalGroup1 -RoleNames role1
```

Add-SmGroupToRole

Adds a group to an existing role.

Syntax

```
Add-SmGroupToRole [-Group] <SmString> [-RoleName] <String> [-Domain]  
<String>
```

Detailed Description

Adds a group to an existing role. A group is an active directory group that contains users, computers, and other groups. You can use groups to easily assign permissions to a set of users.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Group	Specifies the group you want to add to the role.	true	true (ByPropertyName)	
RoleName	Specifies the name of the role to which you want to add a group.	true	true (ByPropertyName)	
Domain	Specifies the domain to which the group belongs.	false	true (ByPropertyName)	

Examples

Example 1: Adding a group to a role

```
Add-SmGroupToRole -RoleName SnapCenterAdmin -Domain sddev -Group "Domain Admins"
```

This example syntax adds the Domain Admins group to the SnapCenterAdmin role.

SnapCenterAdmin
Domain Admins

Add-SmHost

Registers a standalone host or cluster with SnapCenter.

Syntax

```
Add-SmHost [-HostType] <SmOperatingSystemType> [-HostName] <String> [-CredentialName] <String> [-Port] <UInt16> [-DoNotAddClusterNodes] <> [-SkipPreinstallChecks] <> [-Force] <>
```

Detailed Description

Registers a standalone host or cluster with SnapCenter. You must register hosts with SnapCenter. For example, SnapCenter must be registered before you can perform any data protection jobs. In addition, if no plug-ins are installed on the host you are adding, SnapCenter remotely deploys plug-ins, or upgrades the plug-ins as needed.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostType	Specifies the operating system of the host you are adding. Valid values are AIX, Windows, Linux, and vSphere. The default value is Windows. If you are managing a Windows VM containing RDM or VMDK storage, ensure that you add the vSphere host before creating a backup.	true	true (ByPropertyName)	
HostName	Specifies the name or IP of the cluster or standalone host you want to add.	true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
CredentialName	Specifies the name of the account that is required to perform application-specific operations in SnapCenter. You can use a credential account to perform application-specific operations within SnapCenter, such as remotely installing plug-ins. Use the Add-SmCredential cmdlet to create a credential account.	false	true (ByPropertyName)	
Port	Specifies the port you want to use for SnapCenter to host agent communication. The default is 8145. Ensure that the firewall is open on both SnapCenter and the remote host to enable host agent communication.	false	true (ByPropertyName)	
DoNotAddClusterNodes	Specifies not to include all nodes in the cluster. If you set the parameter to True, then only the specified host is added. The default value is False, which means that when you provide a cluster name, all nodes in the cluster are added and managed by SnapCenter.	false	true (ByPropertyName)	False
SkipPreinstallChecks	Specifies that host registration prechecks will not be triggered.	false	true (ByPropertyName)	
Force	Switch to disable validation of the host signature.	false	true (ByPropertyName)	

Examples

Example 1: Registering a host with SnapCenter

```
Add-SmHost -HostName C226030161613-1.srqatdom06.local -HostType Windows
-DoNotAddClusterNodes -CredentialName admin
```

This example syntax registers the specified Windows host with SnapCenter.

```
OsInfo : SMCoreContracts.SmOperatingSystemInfo
HostName : C226030161613-1.srqatdom06.local
IP : 10.232.193.208,fd20:8b1e:b255:8029:19a0:6c5e:ae99:79e0
Description:
HostId : 5
DomainName : srqatdom06.local
Version:
Port :
ClusterHost: False
ClusterName:
Members: {}
HostStatus : eHostUp
HostPluginInfos: {}
ColoHost : False
HostConfiguration : SMCoreContracts.SmConfiguration
DiscoverPlugin : False
HostUUID :
HostBIOSID :
HostMaintenanceStatus : Production
IsNLBEnabled : False
VerificationServers:
HypervisorType :
IsHypervisorConfigured : False
Preference : 0
OverallStatus : SMCoreContracts.SmHostOverallStatusInfo
IsCatalogHost : False
Name :
Type :
Id :
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts : {}
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0
SizeOfSmObject :
```

Example 2: Registering a host where you deployed SnapCenter Plug-in for VMware vSphere OVA

```
Add-SmHost -HostType VSphere -HostName myHostname -CredentialName  
vmware_admin
```

This example syntax registers vSphere host with SnapCenter.

```
OsInfo : SMCoreContracts.SmOperatingSystemInfo
HostName : myHostname
IP : 10.225.97.14
Description:
HostId : 1
DomainName :
Version:
Port :
ClusterHost: False
ClusterName:
Members: {}
HostStatus : eHostUp
HostPluginInfos: {}
ColoHost : True
HostConfiguration : SMCoreContracts.SmConfiguration
DiscoverPlugin : False
HostUUID :
HostBIOSID :
HostMaintenanceStatus : Production
IsNLBEnabled : False
VerificationServers:
HypervisorType :
IsHypervisorConfigured : False
Preference : 0
OverallStatus : SMCoreContracts.SmHostOverallStatusInfo
IsCatalogHost : False
Name :
Type :
Id :
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts : {}
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0
SizeOfSmObject :
```

Example 3: Registering an Exchange DAG with SnapCenter

```
Add-SmHost -HostName EXCH2016DAG -HostType Windows -CredentialName  
domain_admin -Verbose
```

This example syntax registers the specified Exchange DAG with SnapCenter.

Example 4: Registering an AIX host with SnapCenter

```
Add-SmHost -HostType AIX -HostName "aixhostname.fqdn.com" -CredentialName  
cred1
```

This example syntax registers the specified AIX host with SnapCenter.

```
OsInfo : SMCoreContracts.SmOperatingSystemInfo
HostName : aixhostname.fqdn.com
IP : 10.1.0.10
Description:
HostId : 79
DomainName : fqdn.com
Version:
Port :
ClusterHost: False
ClusterName:
Members: {}
HostStatus : eHostUp
HostPluginInfos: {}
ColoHost : True
HostConfiguration : SMCoreContracts.SmConfiguration
DiscoverPlugin : False
HostUUID :
HostBIOSID :
HostMaintenanceStatus : Production
IsNLBEnabled : False
VerificationServers:
HypervisorType :
IsHypervisorConfigured : False
Preference : 0
OverallStatus : SMCoreContracts.SmHostOverallStatusInfo
IsCatalogHost : False
Name :
Type :
Id :
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts : {}
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0
SizeOfSmObject :
```

Add-SmPermissionToRole

Adds one or more permissions to a specified role.

Syntax

```
Add-SmPermissionToRole [-RoleName] <String> [-Permissions] <String>
```

Detailed Description

Adds one or more permissions to a specified role. Use the format <SnapCenter Role Name>:<Permission Name> where the SnapCenter role name is Dataset, Policy, Backup, Host, Storage Connection, Clone, Provision, Dashboard, Restore, Reports, Discovery, Plugin Install/Uninstall, Migration, Mount, and Unmount, and the permission name is create, read, update, delete and allow. The following permissions have the Enabled attribute code: Install/Uninstall, Restore, Dashboard, Reports, and Discovery. For example, if you want to give Host create permissions, you would enter: Add-SmPermissionToRole -Permission Host:Create

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
RoleName	Specifies the name of the role to which you want to add permissions.	true	true (ByPropertyName)	
Permissions	Specifies one or more permissions you want to add to a role. Use the format <SnapCenter Role Name>:<Permission Name>. Permissions include: create, read, update, delete and allow.	true	true (ByPropertyName)	

Examples

Example 1: Adding host read, update, and delete permissions to a role

```
Add-SmPermissionToRole -RoleName Admin -Permissions  
("Host:read", "Host:update", "Host:delete")
```

This example syntax adds host read, update and delete permissions to the Admin role.

Example 2: Adding host create permissions to a role

```
Add-SmPermissionToRole -RoleName SnapCenterAdmin -Permissions Host:create
```

This example syntax adds host create permissions to the SnapCenterAdmin role.

SnapCenterAdmin
Host

Example 3: Adding dataset create permissions to a role

```
Add-SmPermissionToRole -RoleName SnapCenterAdmin -Permissions  
DataSet:create
```

This example syntax adds dataset create permission to the SnapCenterAdmin role.

SnapCenterAdmin
DataSet

Add-SmPlugin

Installs or upgrades a plug-in on one or more hosts.

Syntax

```
Add-SmPlugin [-HostNames] <String> [-PluginCodes] <UploadedPluginCode>  
[-PluginVersions] <Hashtable> [-SkipPreinstallChecks] <> [-Force] <>
```

Detailed Description

Installs or upgrades a plug-in on one or more hosts. You must use the Install-SmHostPackage cmdlet to install host plug-in packages and any specified plug-ins on a host before you can install or upgrade a SnapCenter plug-in using the Add-SmPlugin cmdlet.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostNames	Specifies the hosts on which you want to install or upgrade the plug-in. You can specify one host, or multiple, comma-separated host names. Host names must be entered using the format -HostNames @"hostname" when installing to a single host, or -HostNames @"hostname1", "hostname2" when installing to multiple hosts. You can specify the hostname using either the host FQDN or IP address.	true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
PluginCodes	Specifies the plug-ins you want to install or upgrade. Valid values are SCSQL, SCO, SCE and hana. For custom plug-ins, the value is the custom plug-in name. For example "CustomPlugin1".	true	true (ByPropertyName)	
PluginVersions	Specifies in a hash table the custom plug-in name and the version to add to a host. The PluginVersions parameter uses the format -PluginVersions @{ "customplugin1" = "2.0" }	false	true (ByPropertyName)	
SkipPreinstallChecks	Specifies that installation prechecks will not be triggered.	false	true (ByPropertyName)	
Force	Internal switch.	false	true (ByPropertyName)	

Examples

Example 1: Installing SnapCenter Plug-in for Microsoft SQL Server on a host

```
Add-SmPlugin -HostNames @("mywinsrvr2012r2.mycompany.com") -PluginCodes SCSQL
```

This example syntax installs SnapCenter Plug-in for Microsoft SQL on the specified host.

Example 2: Installing SnapCenter Plug-in for Microsoft SQL Server on multiple hosts

```
Add-SmPlugin -HostNames @("mywinsrvr2012r2.mycompany.com",  
"my2winsrvr2012r2.mycompany.com") -PluginCodes SCSQL
```

This example syntax installs SnapCenter Plug-in for SQL Server on the two specified hosts.

Example 3: Adding or upgrading a custom plugin

```
Add-SmPlugin -HostNames myhostname -PluginCodes CustomPlugin  
-PluginVersions @{ "CustomPlugin"="2.0" } -Verbose
```

This example syntax adds or upgrades the custom plug-in named "CustomPlugin", version 2.0 to a single host.

Add-SmPolicy

Creates a new backup policy.

Syntax

```
Add-SmPolicy [-PolicyName] <String> [-PolicyType] <SmPolicyType> [-  
PluginPolicyType] <PluginCode> [-Description] <String>
```

Detailed Description

Creates a new backup policy. A policy is a set of rules governing backup jobs. A Policy includes backup type, verification schedules, and pre-script and post-script arguments.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PolicyName	Specifies the name of the policy you are adding.	true	true (ByPropertyName)	
PolicyType	Specifies the policy type. Valid value is Backup.	true	true (ByPropertyName)	
PluginPolicyType	Specifies the type of plug-in. You need to specify a plug-in type because policies are settings that are specific to one type of plug-in. For example, if you want to create a policy for resources contained in a SnapCenter Plug-in for Microsoft SQL Server dataset, the plug-in types are SCSQL and SCO. Available plug-in policy types include SCSQL, SCO, SCU, HANA, SCW, SCE.	true	true (ByPropertyName)	
Description	Provides an optional description of the policy you are adding.	false	true (ByPropertyName)	
UtmType	Type of up to the minute (UTM) retention settings to apply to log backups. Possible values are days and count.	false	true (ByPropertyName)	
UtmCount	Up to the minute (UTM) retention by count.	false	true (ByPropertyName)	
UtmDays	Up to the minute (UTM) retention by days.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
SqlBackupType	SQL backup type. Possible values are LogBackup, FullBackup and FullBackupAndLogBackup.	true	true (ByPropertyName)	
DatabasesPerGroup	Maximum number of databases in a group. This is applicable only for full backup.	false	true (ByPropertyName)	
CopyOnlyBackup	Determines whether the full backup is a copy only backup.	false	true (ByPropertyName)	
AGBackupType	Availability Group backup type. Possible values are UsePreferredBackupReplica and UseSpecifiedBackupReplica.	false	true (ByPropertyName)	
AGBackupReplicaType	Availability Group backup replica type. Possible values are Primary, Secondary and All.	false	true (ByPropertyName)	
AGBackupPriorityMinimum	Availability Group backup minimum priority.	false	true (ByPropertyName)	
AGBackupPriorityMaximum	Availability Group backup maximum priority.	false	true (ByPropertyName)	
CreateLogFolderSnapshot	Creates a Log folder Snapshot copy.	false	true (ByPropertyName)	
EnableLogFolderSnapshotRetention	Enables log folder Snapshot copy retention.	false	true (ByPropertyName)	
DeleteLogFolderSnapshotInExcess		false	true (ByPropertyName)	
DeleteLogFolderSnapshotOlderThan	Deletes log folder Snapshot copies that are older than the specified number of days.	false	true (ByPropertyName)	
VerifyLogBackup	Enables log backup verification after backup.	false	true (ByPropertyName)	
DBCC_NOINDEX	DBCC options NOINDEX.	false	false	
DBCC_ALL_ERROR_MSGS	DBCC options ALL_ERRORMSGs.	false	true (ByPropertyName)	
DBCC_NO_INFOMSGS	DBCC options NO_INFOMSGs.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
DBCC_TABLOCK	DBCC options TABLOCK.	false	true (ByPropertyName)	
DBCC_PHYSICALONLY	DBCC options PHYSICALONLY.	false	true (ByPropertyName)	
UpdateSnapMirrorAfterbackup	Update SnapMirror copy after backup. This option is not applicable for SAP HANA policy of File-Based Backup type.	false	true (ByPropertyName)	
UpdateSnapVaultAfterbackup	Update SnapVault copy after backup. This option is not applicable for SAP HANA policy of File-Based Backup type.	false	true (ByPropertyName)	
MirrorVaultUpdateRetryCount	Number of retries to ensure SnapMirror or SnapVault update is triggered.	false	true (ByPropertyName)	
SnapVaultLabel	Label for SnapVault.	false	true (ByPropertyName)	
AllowSavedStateBackup	Allow saved state backup.	false	true (ByPropertyName)	
DeleteBackupInExcess	Delete backup in excess of specified days, it is applicable to only SnapCenter Plug-in for VMware vSphere, if it is used with other plug-ins it will be ignored.	false	true (ByPropertyName)	
DeleteBackupOlderThan	Delete backups older than specified days, it is applicable to only SnapCenter Plug-in for VMware vSphere, if it is used with other plug-ins it will be ignored.	false	true (ByPropertyName)	
PreScriptCommandVerification	Specifies the path of the prescript that should be run before the backup operation.	false	true (ByPropertyName)	
PreScriptArgumentsVerification	Specifies the prescript arguments.	false	true (ByPropertyName)	
PostScriptCommandVerification	Specifies the path of the postscript that should be run after the backup operation.	false	true (ByPropertyName)	
PostScriptArgumentsVerification		false	true (ByPropertyName)	
ScriptTimeoutVerification		false	true (ByPropertyName)	
ScheduleType	The schedule type. Possible values are None, Hourly, Weekly, Daily, and Monthly.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
RetentionSettings	Specifies in a hashtable the retention settings for the policy.	false	true (ByPropertyName)	
PreScriptCommand	Prescript file UNC path with proper privileges for scripts accessibility, ('\\\\server\\share\\path\\file' for Universal Naming Convention (UNC) names).	false	true (ByPropertyName)	
PreScriptArguments	Specifies the prescript arguments.	false	true (ByPropertyName)	
PostScriptCommand	Postscript file UNC path with proper privileges for scripts accessibility, ('\\\\server\\share\\path\\file' for Universal Naming Convention (UNC) names).	false	true (ByPropertyName)	
PostScriptArguments	Specifies postscript arguments.	false	true (ByPropertyName)	
ScriptTimeout	Specifies script timeout value in seconds.	false	true (ByPropertyName)	
VerificationScheduleType		false	true (ByPropertyName)	
DeleteCloneOnScheduleExpiry	Removes a clone during the last run of a scheduled job.If this parameter is not set, then the last run of a schedule also runs a clone life cycle and creates a cloned database.This parameter does not apply to jobs that are not scheduled or to one time job schedules.	false	true (ByPropertyName)	
BackupPolicyName	Specifies the backup policy name.	true	true (ByPropertyName)	
CloneType	Specifies the clone type. Possible values are Primary and Secondary.	false	true (ByPropertyName)	
VerifyOnSecondary	Specifies whether to verify on secondary or not.	false	false	
NumOfBackups	Number of backups to be verified.	false	false	
PluginParams		false	true (ByPropertyName)	
DominoChangeInfoPath		false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
DominoDatabaseType		false	true (ByPropertyName)	
DominolniPath		false	true (ByPropertyName)	
DominoRestoreFilePath		false	true (ByPropertyName)	
DominoRestoreTime		false	true (ByPropertyName)	
Lotus		false	true (ByPropertyName)	
NotesExecDirectory		false	true (ByPropertyName)	
DominoDisableReplication		false	true (ByPropertyName)	
DominolgnoreCorruptedDB		false	true (ByPropertyName)	
DBMCLiCmd		false	true (ByPropertyName)	
HandleLogWriter		false	true (ByPropertyName)	
MaxDBBGServerPrefix		false	true (ByPropertyName)	
MaxDBUpdateHistLog		false	true (ByPropertyName)	
SQLCLiCmd		false	true (ByPropertyName)	
XUserEnable		false	true (ByPropertyName)	
DB2Cmd		false	true (ByPropertyName)	
SybaseISQLCmd		false	true (ByPropertyName)	
SybaseManifest		false	true (ByPropertyName)	
SybaseManifestDelete		false	true (ByPropertyName)	
SybaseManifestFormat		false	true (ByPropertyName)	
SybaseTranDump		false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
SybaseTranDumpCompress		false	true (ByPropertyName)	
SybaseTranDumpFormat		false	true (ByPropertyName)	
BackupType	This is a SAP HANA database specific parameter. Specifies the type of SAP HANA backup. The possible values are FileBasedBackup and SnapshotBasedBackup.	true	true (ByPropertyName)	
OracleBackupType	Specifies the Oracle backup type. Backup types include Online, Offline mount, and Offline shutdown.	true	true (ByPropertyName)	
OracleBackupScope	This option is only valid when the backup type is Online. Backup scope values are Full, Data, and Log.	true	true (ByPropertyName)	
OracleSkipPDBSaveState	Enables you to skip PDB save state. This parameter is only available when you select Offline shutdown backup type. Values are True or False.	false	true (ByPropertyName)	
DeleteAllArchiveLogs	Prunes (deletes) all archive logs after Full or Log backups.	false	true (ByPropertyName)	
DeleteArchiveLogsOlderThan	Prunes (deletes) archive logs older than a specified number of days. This parameter supports the use decimals to enable you to specify a fraction of a day. For example, 2.5 represents 2 days and 12 hours, and 0.04 represents 1 hour.	false	true (ByPropertyName)	
DeleteArchiveLogFromAllDestination	This parameter enables pruning of archive logs on a specified destination. If the value is True, archive logs are pruned on all destinations. If the option is False, archive logs are pruned only on backed up destinations.	false	true (ByPropertyName)	
DeleteArchiveLogBackupInExcess	Deletes archive log backup in excess of the specified backup count.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
DeleteArchiveLogBackupOlderThan	Deletes archive log backups that are older than the specified number of days. This parameter supports the use decimals to enable you to specify a fraction of a day. For example, 2.5 represents 2 days and 12 hours, and 0.04 represents 1 hour.	false	true (ByPropertyName)	
CatalogBackupWithOracleRMAN	Specifies that you want to catalog backup using Oracle Recovery Manager (RMAN).	false	true (ByPropertyName)	
ScwBackupType	The SnapCenter Plug-in for Windows backup type. Values are ApplicationConsistent, FilesystemConsistent and CrashConsistent.	true	true (ByPropertyName)	
SceBackupType		true	true (ByPropertyName)	
UtmCounts		false	true (ByPropertyName)	
BackupTruncatedTransactionLog		false	true (ByPropertyName)	
BackupActiveCopies		false	true (ByPropertyName)	
BackupCopiesOnServer		false	true (ByPropertyName)	

Examples

Example 1: Creating a new hourly policy with scheduler type as SQL

```
Add-SmPolicy -PolicyName TESTPolicy - PluginPolicyType SCSQL -PolicyType Backup -SqlBackupType FullBackup -ScheduleType Hourly -Verbose -SchedulerType SQL
```

This example syntax creates a new hourly policy with the SQL scheduler type.

Example 2: Creating an Oracle policy that prunes all archive logs on all destinations, and deletes archive log backups in excess of 5

```
Add-SmPolicy -PolicyName 1 -PolicyType Backup -PluginPolicyType SCO
-OracleBackupType ONLINE -OracleBackupScope FULL -DeleteAllArchiveLogs
$true -DeleteArchiveLogFromAllDestination $true
-DeleteArchiveLogBackupInExcess 5
```

This example syntax creates an Oracle policy that prunes all archive logs on all destinations, and deletes archive log backups in excess of 5.

```
ApplySnapvaultUpdate: False
ApplyRetention      : False
RetentionCount      :
RetentionDays       :
ApplySnapMirrorUpdate : False
SnapVaultLabel      :
MirrorVaultUpdateRetryCount : 3
AppPolicies : {}
Description :
PreScriptPath      :
PreScriptArguments :
PostScriptPath      :
PostScriptArguments :
ScriptTimeout      : 60000
DateModified: 10/5/2015 2:17:57 PM
DateCreated : 10/5/2015 2:17:57 PM
Schedule: SMCoreContracts.SmSchedule
PolicyType : Backup
PluginPolicyType: SCO
Name: 1
Type:
Id : 99
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts : {}
SmOracleBackupType : ONLINE
SmOracleBackupScope: FULL
SmOraclePDBSaveState : True
PruneArchiveLog: True
PruneArchiveLogType: AllLogs
PruneArchiveLogOlderThanDays :
PruneArchiveLogDestinationType : AllDestinations
```

```

DeleteArchiveLogBackup : True
ArchiveLogBackupRetentionType : CountBase
DeleteArchiveLogBackupCounts : 5
DeleteArchiveLogBackupDays :
Name :
Type :
Id :
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts : {}

```

Example 3: Creating a policy for custom plugin DB2 with daily schedule type

```

Add-SMPolicy -PolicyName 'DB2_DAILY_POLICY' -PolicyType 'Backup'
-PluginPolicyType DB2-retentionsettings
@{"BackupType"="DATA";"ScheduleType"="DAILY";"RetentionCount"='3'}
-description 'DB2 daily schedule policy' -schedulescheduletype 'DAILY'

```

This example syntax creates a daily scheduled policy for custom plug-in DB2 with retention count 3

```

ApplyRetention : True
ApplySnapMirrorUpdate : False
ApplySnapvaultUpdate: False
MirrorVaultUpdateRetryCount : 3
RetentionCount : 3
RetentionDays : 0
SnapVaultLabel :
AppPolicies : {}
DateCreated : 8/22/2016 9:37:43 AM
DateModified: 8/22/2016 9:37:43 AM
Description : DB2 daily schedule policy
PluginPolicyType: DB2
PolicyType : Backup
PostScriptArguments :
PostScriptPath :
PreScriptArguments :
PreScriptPath :
Schedules : {}
Schedule: SMCoreContracts.SmSchedule

```

```
ScriptTimeout      : 60
Name: DB2_DAILY_POLICY
Type:
Id   : 18
Host:
UserName:
Passphrase  :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts    : {}
TaskName :
Hosts    : {}
StartTime :
DaysOfMonth:
MonthsOfTheYear :
DaysInterval : 0
DaysOfTheWeek :
AllowDefaults : False
ReplaceJobIfExists : False
UserName :
Password :
SchedulerType : Daily
RepeatTask_Every_Hour :
IntervalDuration :
EndTime :
LocalScheduler:
AppType :
AuthMode :
SchedulerSQLInstance : SMCoreContracts.SmObject
MonthlyFrequency :
ScheduleID: 0
PolicyId : 18
PluginName : DB2
PluginParams : SMCoreContracts.SmKeyValueCollection
SmSCBackupType : DataBackup
Name :
Type :
Id :
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
```

```
CloneLevel : 0  
Hosts      : {}
```

Example 4: Creating a new Windows backup policy

```
Add-SmPolicy -PolicyName scw_policy -PolicyType Backup -PluginPolicyType  
SCW -ScwBackupType CrashConsistent
```

This example syntax creates a new Windows backup policy.

```
ApplySnapvaultUpdate : False
ApplyRetention       : False
RetentionCount       :
RetentionDays:
ApplySnapMirrorUpdate: False
SnapVaultLabel       :
MirrorVaultUpdateRetryCount : 3
AppPolicies          : {}
Description           :
PreScriptPath:
PreScriptArguments    :
PostScriptPath        :
PostScriptArguments   :
ScriptTimeout: 60
DateModified          : 5/18/2016 6:36:24 PM
DateCreated           : 5/18/2016 6:36:24 PM
Schedule              : SMCoreContracts.SmSchedule
PolicyType            : Backup
PluginPolicyType      : SDW
Name                  : scw_policy
Type                  :
Id                    : 1
Host                  :
UserName              :
Passphrase            :
Deleted               : False
Auth                  : SMCoreContracts.SmAuth
IsClone               : False
CloneLevel            : 0
Hosts: {}
ScwBackupType         : CrashConsistent
Name                  :
Type                  :
Id                    :
Host                  :
UserName              :
Passphrase            :
Deleted               : False
Auth                  : SMCoreContracts.SmAuth
IsClone               : False
CloneLevel            : 0
Hosts                 : {}
```

Example 5: Creating a new backup policy for SnapCenter Plugin for SAP HANA backup of type FileBasedBackup

```
Add-SmPolicy -PolicyName newpol123 -PolicyType Backup -PluginPolicyType
HANA -BackupType FileBasedBackup
```

This example syntax creates a new backup policy for SnapCenter Plug-in for SAP HANA with FileBasedBackup as the backup type.

```
ApplyRetention      : True
ApplySnapMirrorUpdate : False
ApplySnapvaultUpdate: False
MirrorVaultUpdateRetryCount : 0
RetentionCount      : 7
RetentionDays       : 0
SnapVaultLabel      :
AppPolicies         : {}
DateCreated         : 3/23/2017 10:14:31 PM
DateModified        : 3/23/2017 10:14:31 PM
Description         :
PluginPolicyType    : hana
PolicyType          : Backup
PostScriptArguments :
PostScriptPath      :
PreScriptArguments  :
PreScriptPath       :
Schedules           : {}
Schedule: SMCoreContracts.SmSchedule
ScriptTimeout       : 60
Name: newpol123
Type:
Id : 39
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts     : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0
```

```

Retention Settings
BackupType      : DATA
SchedulerType   : None
RetentionCount  : 7
RetentionDays   : 0
VerificationEnabled : False
NodeName:
PolicyId        : 39
PluginName      : hana
PluginParams     : SMCoreContracts.SmKeyValueCollection
SmSCBackupType  : FileBasedBackup
Name            :
Type            :
Id              :
Host            :
UserName        :
Passphrase      :
Deleted: False
Auth            : SMCoreContracts.SmAuth
IsClone: False
CloneLevel      : 0
Hosts           : {}
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0

```

Example 6: Creating a new backup policy for SnapCenter Plugin for SAP HANA backup of type SnapshotBasedBackup

```

Add-SmPolicy -PolicyName hana_snapshotbased -PolicyType Backup
-PluginPolicyType HANA -BackupType SnapshotBasedBackup

```

This example syntax creates a new backup policy for SnapCenter Plug-in for SAP HANA with SnapshotBasedBackup as the backup type.

```

ApplyRetention      : True
ApplySnapMirrorUpdate : False
ApplySnapvaultUpdate: False
MirrorVaultUpdateRetryCount : 3
RetentionCount      : 7
RetentionDays        : 0
SnapVaultLabel       :
AppPolicies          : {}

```

```
DateCreated : 3/23/2017 10:17:30 PM
DateModified: 3/23/2017 10:17:30 PM
Description :
PluginPolicyType: hana
PolicyType : Backup
PostScriptArguments :
PostScriptPath :
PreScriptArguments :
PreScriptPath :
Schedules : {}
Schedule: SMCoreContracts.SmSchedule
ScriptTimeout : 60
Name: hana_snapshotbased
Type:
Id : 41
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0
Retention Settings
BackupType : DATA
SchedulerType : None
RetentionCount : 7
RetentionDays : 0
VerificationEnabled : False
NodeName:
PolicyId : 41
PluginName : hana
PluginParams : SMCoreContracts.SmKeyValueCollection
SmSCBackupType : DataBackup
Name :
Type :
Id :
Host :
UserName :
Passphrase :
Deleted: False
```

```

Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts     : {}
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0

```

Example 7: Adding a policy with a retention based on number of days

```

Add-SMPolicy -PolicyName 'DB2_DAILY_POLICY' -PolicyType 'Backup'
-PluginPolicyType DB2-
    retentionsettings
@{"BackupType"="DATA";"ScheduleType"="DAILY";"RetentionDays"='3'} -
    description 'DB2 daily schedule policy' -schedulescheduletype 'DAILY'

```

Example 8: Creating a new daily policy with SnapLock Retention

```

Add-SmPolicy -PolicyName SCSQL_Snaplock_Policy -PluginPolicyType SCSQL
-PolicyType Backup -SqlBackupType FullBackupAndLogBackup -ScheduleType
Daily -retentionsettings @{"BackupType"="DATA";
"ScheduleType"="DAILY";"RetentionDays"="14";"SnapLockRetentionPeriod"=7;"S
napLockRetentionPeriodType"="Days";"SecondarySnapLockRetentionPeriod"=7;"S
econdarySnapLockRetentionPeriodType"="Days"},@{"BackupType"="LOG";
"ScheduleType"="DAILY";"RetentionCount"="2";"SnapLockRetentionPeriod"=7;"S
napLockRetentionPeriodType"="Days";"SecondarySnapLockRetentionPeriod"=7;"S
econdarySnapLockRetentionPeriodType"="Days"}

```

INFO: Specifying a retention period prevents the Snapshot copies from being deleted until the SnapLock retention period expires. This could lead to retaining a larger number of Snapshot copies than the count specified in the policy.

```

ApplySnapvaultUpdate : False
ApplyRetention       : True
RetentionCount       : 0
RetentionDays: 14
ApplySnapMirrorUpdate:
SnapVaultLabel       :
MirrorVaultUpdateRetryCount : 3
Retentions           : {, , , }
LastBackupStatus     :
LastBackupDate       :

```

```

IncludeAcls      :
AppPolicies     : {}
Description      :
PreScriptPath    :
PreScriptArguments :
PostScriptPath   :
PostScriptArguments :
ScriptTimeout    : 60
DateModified     : 8/13/2023 7:07:48 PM
DateCreated      : 8/13/2023 7:07:48 PM
Schedule         : SMCoreContracts.SmSchedule
PolicyType       : Backup
PluginPolicyType : SMSQL
InBuilt          : False
Schedules: {}
AllowMultipleSchedules : False
Name             : SCSQL_Snaplock_Policy
Type             :
Id               : 10
Host             :
UserName         :
Passphrase       :
Deleted          : False
Auth             : SMCoreContracts.SmAuth
IsClone          : False
CloneLevel       : 0
Hosts: {}
StorageName      :
ResourceGroupNames :
PolicyNames      :
Key              : 0
NsmObjectID      : 0
SizeOfSmObject   : SMCoreContracts.SmObjectSize

Schedules: Daily
Retention Settings
BackupType       : DATA
SchedulerType    : Daily
RetentionCount   : 0
RetentionDays    : 14
VerificationEnabled : False
NodeName         :
SnapLockRetentionPeriod : 7
SnapLockRetentionPeriodType : Days
SecondarySnapLockRetentionPeriod : 7
SecondarySnapLockRetentionPeriodType : Days

```

```

BackupType      : LOG
SchedulerType: Daily
RetentionCount   : 2
RetentionDays: 0
VerificationEnabled : False
NodeName :
SnapLockRetentionPeriod : 7
SnapLockRetentionPeriodType : Days
SecondarySnapLockRetentionPeriod : 7
SecondarySnapLockRetentionPeriodType : Days

BackupType      : LOG_SNAPSHOT
SchedulerType: None
RetentionCount   : 2
RetentionDays: 0
VerificationEnabled : False
NodeName :
SnapLockRetentionPeriod :
SnapLockRetentionPeriodType :

```

Example 9: Creating a policy for UnixFileSystems plug-in

```

Add-SMPolicy -PolicyName 'BackupPS_linuxfs201_LVM1_12648' -PolicyType
'Backup' -Description 'UnixFS backup policy' -PluginPolicyType
'UnixFileSystems'

```

This example syntax creates a new backup policy for UnixFileSystems Plug-in.

```

ApplyRetention : True
ApplySnapMirrorUpdate :
ApplySnapvaultUpdate: False
MirrorVaultUpdateRetryCount : 3
RetentionCount : 2
RetentionDays : 0
SnapVaultLabel :
AppPolicies : {}
DateCreated : 12/12/2023 8:29:27 AM
DateModified: 12/12/2023 8:29:27 AM
Description : UnixFS backup policy
PluginPolicyType: UnixFileSystems
PolicyType : Backup
PostScriptArguments :
PostScriptPath :
PreScriptArguments :

```

```

PreScriptPath    :
Schedules       : {}
Schedule: SMCoreContracts.SmSchedule
ScriptTimeout    : 60
Name: BackupPS_linuxfs201_LVM1_12648
Type:
Id   : 264
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone  : False
CloneLevel : 0
Hosts    : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0
SizeOfSmObject :
Schedules :
Retention Settings
BackupType : DATA
SchedulerType : None
RetentionCount : 2
RetentionDays : 0
VerificationEnabled : False
NodeName:
SnapLockRetentionPeriod :
SnapLockRetentionPeriodType :
PluginName : UnixFileSystems
PluginParams : SMCoreContracts.SmKeyValueCollection
PolicyId : 264
SmSCBackupType : DataBackup
Auth : SMCoreContracts.SmAuth
CloneLevel : 0
Deleted: False
Host :
Hosts : {}
Id :
IsClone: False
Key: 0
Name :
NsmObjectID: 0
Passphrase :

```

```

PolicyNames:
ResourceGroupNames :
StorageName:
Type      :
UserName  :

```

Example 10: Adding a SQL policy with object storage backup enabled

```

Add-SmPolicy -PolicyName SCSQL_ObjectStore_Policy -PluginPolicyType SCSQL
-PolicyType Backup -SqlBackupType FullBackup -ScheduleType Daily
-retentionsettings @{"BackupType"="DATA";
"ScheduleType"="DAILY";"RetentionDays"="14";"EnableObjectStorageBackup"="t
rue";"ObjectStorageBackupRetentionDays"="365"}

```

Add-SmProtectResource

Protects a resource so that it is available for backup, restore and clone.

Syntax

```

Add-SmProtectResource [-ArchivedLocators] <Hashtable[]> [-PluginCode]
<PluginCode> [-EnableEmail] <> [-EmailPreference]
<SmEmailNotificationPreference>

```

Detailed Description

Protects a resource so that it is available for backup, restore and clone.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ArchivedLocators	Specifies in a hashtable the secondary storage system details for each unique primary storage system resource in the resource group. For example:- ArchivedLocators @{Primary="my_vs1:my_vol_iscsi";Secondary="my_vs1:my_vol_iscsi_SECONDARY"}	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
PluginCode	Specifies the plug-in code of the host for which you are creating a backup resource group. Valid values are SCSQL, SCW, and SCO.	true	true (ByPropertyName)	
EnableEmail	Specifies whether to enable or disable email.	false	false	
EmailPreference	Specifies when you will receive e-mail notifications. Possible values: Always, Never, OnError, OnErrorOrWarning.	false	false	
Resources	Specifies the resource you want to protect. You must provide the resource information in a key value format, and it must contain the resource name, type, and the host on which it is located. For example, -Resources@{"Host"="host.example.com"; "Type"="SQL Database"; "Names"="NB-MVA-DEV054\newdb"} For Oracle Database, the format is -Resources @{"Host"="host.example.com"; "Oracle Database"="db"}. For Oracle Application Volume, the format is -Resources @{"Host"="host.example.com"; "Application Volume"="appVol"}.	true	true (ByPropertyName)	
Description	Provides an optional description of the resource to be protected.	false	true (ByPropertyName)	
Tag	Enables you to apply a unique tag to help identify the resources. For example, you can add the tag "HR" to multiple resource groups. You can later search for all resource groups with the "HR" tag.	false	true (ByPropertyName)	
Policies	Specifies the list of policies associated with the resource group. Multiple policies can be added as a comma-separated list.	false	true (ByPropertyName)	
SchedulerCredentialName		false	true (ByPropertyName)	
SchedulerInstance	Specifies the SQL Server Instance where the schedule is created and managed. This is mandatory if the policy has SQL scheduler enabled.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
VerificationServers	Specifies the list of verification servers to be associated with the resource group. Multiple verification servers can be added as a comma-separated list. This parameter is only required when you want to verify backups for SnapCenter Plug-in for Microsoft SQL Server resource groups.	false	true (ByPropertyName)	
CustomSnapshotFormat	Specifies that you want to use a custom Snapshot copy naming format. By default, a timestamp is appended to the Snapshot copy name. Valid values for CustomSnapshotFormat are : \$ResourceGroup, \$Policy, \$HostName, \$ScheduleType, \$CustomText	false	true (ByPropertyName)	
CustomText	Specifies the custom text in the custom Snapshot copy naming format.	false	true (ByPropertyName)	
DeleteBackupForDetachPolicies		false	true (ByPropertyName)	
Schedules	Specifies the schedule parameters to be used in the resource group. Schedule parameters can include the policy name, schedule type, schedule start and end times. You can specify multiple schedules in a comma-separated list, for example:- Schedules @{"PolicyName"="BackupPolicy";"ScheduleType"="OneTime"}, @{"PolicyName"="BackupPolicy";"ScheduleType"="Hourly";"StartTime"=" 05/27/2016 6:13 PM";"EndTime"="05/27/2016 6:30 PM"}"	false	true (ByPropertyName)	
SchedulerType	Specifies the scheduler type. Possible values are Windows, SQL, None.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
VerificationSchedules	Specifies the verification schedules you want to add to the resource. The verification schedule includes the following parameters:"VerificationType" which defines if and when verification is performed. The following values are available:VERIFY_SCHEDULEDVERIFY_AFTER_BACKUPNONE"ScheduleType" represents the schedule type for the verification."BackupScheduleType" represents the schedule type for the backup-VerificationServers "WIN-DVGQDI73QR6" needs to be provided in the above command if we are creating verification enabled resource group for SCSQL plugin.	false	true (ByPropertyName)	
BackupArchiveLogsAfterRecentMissingOne	This option is only valid for SCO plugin code. Specifies that you want to backup archive log files, which are created after the most recent missing archive log files and ignore the files created prior to it. If this option is not specified, then all archive log files except the missing archive log files are be backed up.	false	true (ByPropertyName)	
ExcludeArchiveLogPathsFromBackup	This option is only valid for SCO plugin code. Specifies the archive log destinations to be excluded from backup. Archive log files present in the specified destinations will be excluded during log backup. Multiple entries can be specified using comma separated list. For example: -ExcludeArchiveLogPathsFromBackup '/arch/logs/on/local/disk1, '/arch/logs/on/local/disk2'.	false	true (ByPropertyName)	
ConsistencyGroupSnapshot		false	true (ByPropertyName)	
ConsistencyGroupWafSync		false	true (ByPropertyName)	
ConsistencyGroupTimeOut		false	true (ByPropertyName)	
SnapShotCreateCommand		false	true (ByPropertyName)	
UseFileSystemConsistentSnapshot		false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
UseSnapcenterWith outFileSystemConsi stency		false	true (ByPropertyName)	
PreAppQuiesceCmd		false	true (ByPropertyName)	
PostAppQuiesceCm d		false	true (ByPropertyName)	
AppQuiesceCmd		false	true (ByPropertyName)	
AppUnQuiesceCmd		false	true (ByPropertyName)	
PreAppUnQuiesceC md		false	true (ByPropertyName)	
PostAppUnQuiesce Cmd		false	true (ByPropertyName)	
PreExitCmd		false	true (ByPropertyName)	
PreSnapshotCmd		false	true (ByPropertyName)	
PostSnapshotCmd		false	true (ByPropertyName)	
ApplgnoreError		false	true (ByPropertyName)	
UseExternalSnapSh ot		false	true (ByPropertyName)	
ExternalSnapshotRe gex		false	true (ByPropertyName)	
ConfigParams		false	true (ByPropertyName)	

Examples

Example 1: Protecting a resource

```
Add-SmProtectResource -PluginCode SCSQL -Policies BackupPolicy
-Resources @{"Host"="host.example.com";"Type"="SQL Database";"Names"="NB-
MVA-DEV054\newdb"} -Description test -EnableAsupOnFailure -Schedules
@{"PolicyName"="p2";"ScheduleType"="Monthly";"daysOfTheMonth"="31";"months
OfTheYear"="August,September";} -SchedulerRunAsName Administrator
-SchedulerType Windows
```

This example syntax protects a resource.

Example 2: Protecting a resource with hourly backup policy

```
Add-SmProtectResource -PluginCode SCSQL -Policies BackupPolicy
    -Resources @{"Host"="host.example.com";"Type"="SQL
Database";"Names"="NBMVA-DEV054\newdb"} -Description test
-EnableAsupOnFailure -schedules
@{"PolicyName"="BackupPolicy";"StartTime"="05/21/2019 7:54
PM";"EndTime"="05/21/2019 8:03
PM";"ScheduleType"="Hourly";"RepeatTask_Every_Hour"="03:00"}
-SchedulerType Windows
```

Example 3: Protecting a resource with daily backup policy

```
Add-SmProtectResource -PluginCode SCSQL -Policies BackupPolicy
    -Resources @{"Host"="host.example.com";"Type"="SQL
Database";"Names"="NBMVA-DEV054\newdb"} -Description test
-EnableAsupOnFailure -schedules
@{"PolicyName"="BackupPolicy";"StartTime"="05/21/2019 8:09
PM";"EndTime"="05/21/2019 9:18
PM";"ScheduleType"="Daily";"daysInterval"="1"} -SchedulerType Windows
```

Example 4: Protecting a resource with weekly backup policy

```
Add-SmProtectResource -PluginCode SCSQL -Policies BackupPolicy
    -Resources @{"Host"="host.example.com";"Type"="SQL
Database";"Names"="NBMVA-DEV054\newdb"} -Description test
-EnableAsupOnFailure -schedules
@{"PolicyName"="BackupPolicy";"StartTime"="05/21/2019 8:24
PM";"EndTime"="05/21/2019 8:41
PM";"ScheduleType"="Weekly";"DaysOfTheWeek"="Tuesday"} -SchedulerType
Windows
```

Example 5: Protecting a resource with monthly backup policy

```
Add-SmProtectResource -PluginCode SCSQL -Policies BackupPolicy
    -Resources @{"Host"="host.example.com";"Type"="SQL
Database";"Names"="NBMVA-DEV054\newdb"} -Description test
-EnableAsupOnFailure -schedules
@{"PolicyName"="BackupPolicy";"StartTime"="05/21/2019 8:51
PM";"EndTime"="05/21/2019 9:18
PM";"ScheduleType"="Monthly";"MonthsOfTheYear"="May, June";"daysOfTheMonth"
="21,26,16"} -SchedulerType Windows
```

Example 6: Protecting a HANA resource

```
Add-SmProtectResource -PluginCode HANA -Resources
@{"Host"="schana02.gdl.englab.netapp.com";"Uid"="MDC\R57"} -Policies
"HANAPOLICY"
```

This example protects a resource.

Tag :
ByPassRunAs : False
Configuration : SMCoreContracts.SmConfiguration
CreationTime: 02-Oct-19 21:47:16
CustomSnapshotFormat:
CustomText :
Description :
EmailBody :
EmailFrom :
EmailNotificationPreference :
EmailSMTPServer :
EmailSubject:
EmailTo :
EnableAsupOnFailure :
EnableEmail :
EnableSysLog:
HostResourceMapping : {}
IsCustomSnapshot:
LastBackupStatus:
MaintenanceStatus : Production
ModificationTime: 02-Oct-19 21:47:16
PluginProtectionGroupTypes : {hana}
Policies: {}
ProtectionGroupType : Backup
SchedulerSQLInstance:
SearchResources : False
VerificationServer :
VerificationServerInfo : SMCoreContracts.SmVerificationServerInfo
Name: schana02_gdl_englab_netapp_com_hana_MDC_R57
Type: Group
Id : 2
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0

Example 7: Protecting an Oracle Application Volume resource

```
Add-SmProtectResource -PluginCode SCO -Resources
@{"Host"="R8092776CF4V1.HNK2.com";"Application Volume"="appVol"} -Policies
"appVolPolicy"
```

This example protects an Oracle application volume resource named appVol.

Description :

```
CreationTime: 11/4/2021 4:41:46 AM
ModificationTime: 11/4/2021 4:41:46 AM
EnableEmail :
EmailSMTPServer :
EmailFrom :
EmailTo :
EmailSubject:
EnableSysLog:
ProtectionGroupType : Backup
EnableAsupOnFailure :
Policies: {}
HostResourceMapping : {}
Configuration : SMCoreContracts.SmConfiguration
LastBackupStatus:
VerificationServer :
EmailBody :
EmailNotificationPreference :
VerificationServerInfo :
SMCoreContracts.SmVerificationServerInfo
SchedulerSQLInstance:
CustomText :
CustomSnapshotFormat:
SearchResources : False
ByPassRunAs : False
IsCustomSnapshot:
MaintenanceStatus : Production
PluginProtectionGroupTypes : {SCO}
Tag :
IsInternal : True
EnableEmailAttachment :
VerificationSettings: {}
BackupServers : {}
EnableRecentSnapshotNaming :
Name: R8092776CF4V1_HNK2_com_appVol
Type: Group
Id : 178
```

```
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0
SizeOfSmObject : SMCoreContracts.SmObjectSize
```

Example 8: Protecting an Oracle Database resource

```
Add-SmProtectResource -PluginCode SCO -Resources
@{"Host"="R8092776CF4V1.HNK2.com";"Oracle Database"="DB16"} -Policies
"dbPolicy"
```

This example protects an Oracle database resource named DB16.

```
Description :
CreationTime: 11/4/2021 5:05:51 AM
ModificationTime: 11/4/2021 5:05:51 AM
EnableEmail :
EmailSMTPServer :
EmailFrom :
EmailTo :
EmailSubject:
EnableSysLog:
ProtectionGroupType : Backup
EnableAsupOnFailure :
Policies: {}
HostResourceMapping : {}
Configuration : SMCoreContracts.SmConfiguration
LastBackupStatus:
VerificationServer :
EmailBody :
EmailNotificationPreference :
VerificationServerInfo :
SMCoreContracts.SmVerificationServerInfo
SchedulerSQLInstance:
```

```

CustomText      :
CustomSnapshotFormat:
SearchResources : False
ByPassRunAs     : False
IsCustomSnapshot:
MaintenanceStatus : Production
PluginProtectionGroupTypes : {SCO}
Tag :
IsInternal      : True
EnableEmailAttachment :
VerificationSettings: {}
BackupServers   : {}
EnableRecentSnapshotNaming :
Name: R8092776CF4V1_HNK2_com_DB16
Type: Group
Id : 179
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0
SizeOfSmObject : SMCoreContracts.SmObjectSize

```

Add-SmReportSchedule

Creates a schedule to automatically trigger the reports based on the user privileges.

Syntax

```

Add-SmReportSchedule [-Name] <String> [-Plugin] <PluginCode> [-
ScheduleType] <String> [-DayOfTheWeek] <String> [-DayOfTheMonth]
<String> [-TriggerTime] <String> [-DocumentType] <String> [-
FromEmail] <String> [-Recipients] <String>

```

Detailed Description

Creates a report schedule, which generates daily, weekly, or monthly reports and sends it to the specified e-mail ids as per the user privileges.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Specify the name to create a report schedule. A valid schedule name can only include alphabets, numbers, hyphens, and underscores.	true	true (ByPropertyName)	
Plugin	Specify the plug-in code to generate the report. For custom plug-ins, specify the custom plug-in name for example, hana, mysql. Specify 'all' to generate report for "All Plug-ins".	true	true (ByPropertyName)	
ScheduleType	Specify the schedule type. Valid values are 'daily', 'weekly', and 'monthly'.	true	true (ByPropertyName)	
DayOfTheWeek	Specify the day of the week to run the schedule. Valid values are 'monday', 'tuesday', 'wednesday', 'thursday', 'friday', 'saturday', 'sunday'. This field is applicable only for weekly schedule.	false	true (ByPropertyName)	
DayOfTheMonth	Specify the day (number) of the month to run the schedule. The value should be between 0 and 28. Enter zero to run the schedule for the last day of the month. This field is applicable only for monthly schedule.	false	true (ByPropertyName)	
TriggerTime	Specify the TriggerTime HH:MM in 24 Hours format.	true	true (ByPropertyName)	
DocumentType	Specify the format of the report in which report should be sent over e-mail. The valid formats are PDF and CSV. Add the comma separator if both the formats are needed.	true	true (ByPropertyName)	
FromEmail	Specify the e-mail address from which the report has to be sent.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
Recipients	Specify the e-mail address to send the report. For multiple e-mail ID's, separate them by comma.	true	true (ByPropertyName)	

Examples

Example 1: Creating a daily report schedule.

```
Add-SmReportSchedule -Name schedule1 -Plugin SCO -ScheduleType daily
-TriggerTime 1:10 -DocumentType "PDF,CSV" -FromEmail user@domain.com
-Recipients "user1@domain.com,user2@domain.com"
```

This example creates a daily schedule. Pass ScheduleType as 'Daily' and enter the TriggerTime at which the report needs to be generated every day. The report will contain data for the last 24 hours.

Example 2: Creating a weekly report schedule.

```
Add-SmReportSchedule -Name schedule1 -Plugin HANA -ScheduleType weekly
-DayOfTheWeek sunday -TriggerTime 1:10 -DocumentType PDF -FromEmail
user@domain.com -Recipients "user1@domain.com,user2@domain.com"
```

This example creates a weekly schedule for the custom plug-in. Pass the ScheduleType as 'Weekly', enter DayOfTheWeek and TriggerTime at which the schedule should run every week. The report will contain data for the last 7 days. For the 'Plugin' parameter, the custom plug-in name is specified instead of the plug-in code.

Example 3: Creating a monthly report schedule.

```
Add-SmReportSchedule -Name schedule1 -Plugin all -ScheduleType monthly
-DayOfTheMonth 11 -TriggerTime 1:10 -DocumentType CSV -FromEmail
user@domain.com -Recipients "user1@domain.com,user2@domain.com"
```

This example creates a monthly schedule. Pass ScheduleType as 'Monthly', enter DayOfTheMonth and TriggerTime to generate the report. If day of the month is selected as '06', the report will contain data from the last month 6th day to 6th day of the current month. If the day of the month is selected as 'Last Day', report will run on the last day of every month at the specified time. For 'Last Day', report will contain data from 1st of every month to the last day of the month.

Add-SmResource

Creates a custom plug-in resource or an Oracle plug-in application volume resource to be protected.

Syntax

```
Add-SmResource [-HostName] <String> [-PluginCode] <PluginCode> [-CredentialName] <String>
```

Detailed Description

Creates resource of a given ResourceType, where the resource types supported for a custom plug-in are specified as part of the plug-in description file or you can create an Oracle plug-in application volume resource. You can also use the cmdlet to associate storage of type Volume or Qtree or LUN with given resource. If required, you can also specify custom parameters specific to the resource along with a Run As account, which can be used by the plug-in to validate credentials to access the resource.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName	The name of the SnapCenter Custom Plug-in or Oracle Plug-in host.	true	true (ByPropertyName)	
PluginCode	The name of the plug-in associated with the resource you are adding. Possible inputs include SCSQL, SCW, SCO, HANA and SCU.	true	true (ByPropertyName)	
CredentialName		false	true (ByPropertyName)	
ResourceType	The type of application object. This parameter does not accept any special characters or spaces. For example, instance, database, or a SAP HANA SingleContainer or MultipleContainers.	true	true (ByPropertyName)	
ResourceName	The name of the application object.	true	true (ByPropertyName)	
StorageFootPrint	Specifies the storage footprint. You enter the storage footprint using the following format: -StorageFootPrint @(@{"VolumeName"="Volume";"StorageSystem"="server"}, @{"LunPath"="/vol/Volume/LunPath";"StorageSystem"="server"}, @{"QtreeName"="qtree";"VolumeName"="volume";"StorageSystem"="server"})	true	true (ByPropertyName)	
MountPoints	Specifies the mount point for the resource.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
ResourceSettings	Specifies the custom resource parameters. You enter ResourceSettings in a hastable using key-value pairs. For example:- ResourceSettings @{"Key1" = "Value1"; "Key2" = "Value2"}	false	true (ByPropertyName)	
DatabaseName	SAP HANA Database name.	true	true (ByPropertyName)	
SID	This is a SAP HANA database specific parameter. A SAP HANA system is identified by a unique 3 letter system ID (SID). For example, ABC.	true	true (ByPropertyName)	
UserStoreKeys	Comma separated list of SAP HANA database UserStoreKeys.	true	true (ByPropertyName)	
FileBackupPath	Location of the SAP HANA node on which the SAP HANA File-Based Backup is saved. This is required when EnableFileBackup parameter is set to 'Y'. The path must start with a forward slash and it cannot contain * ? \ " < > characters. If the path is not provided, SAP HANA will use the default path configured on the system. For example, /hana/shared/{SID}/HDB {INSTANCE_ID}/backup/data.	false	true (ByPropertyName)	
FileBackupPrefix	Prefix added to the File-Based Backup name. This is required when EnableFileBackup parameter is set to 'Y'. Use only letters, numbers, and underscores for the prefix of File-Based Backup name. If prefix is not provided, default value will be used.	false	true (ByPropertyName)	
OSDBUser		true	true (ByPropertyName)	
TenantDatabaseName	This is a SAP HANA database specific parameter. It is the name of the tenant database for SAP HANA MultiTenant Database Containers resource type.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
TenantType	This is a SAP HANA database specific parameter. This specifies the tenant type of SAP HANA MultiTenant Database Containers. SingleTenant as tenant type is deprecated. SingleTenant as tenant type is deprecated	true	true (ByPropertyName)	MultiTenant

Examples

Example 1: Adding a resource with a single storage volume

```
Add-SmResource -HostName 'host.example.com' -PluginCode 'DB2'
-ResourceName DB1-ResourceType Database -StorageFootPrint
(@{"VolumeName"="autoVoll1";"StorageSystem"="vserver_scauto_primary"})
-Instance db2inst3
```

This example syntax adds a Resource Type Database of Custom plug-in DB2. In this example, the resource parent type is Instance, which is mandatory as indicated by the plug-in descriptor file used during Upload-SmPluginPackage.

Successfully added the following resource

```
PluginName : DB2
Uid: db2inst3\DB1
ParentUid  :
SmAppFiles :
SmAppFileStorageGroups : {}
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
LastBackupDate :
LastBackupStatus :
IsProtected: False
Name      : DB1
Type      : Database
Id : sccrhelldb2.sscore.test.com\DB2\db2inst3\DB1
Host      : sccrhelldb2.sscore.test.com
UserName   :
Passphrase :
Deleted: False
Auth       : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts      :
```

Example 2: Adding a resource with ResourceType instance containing multiple Storage Type LUNs

```
Add-SmResource -HostName 'host.example.com' -PluginCode 'DB2'
-ResourceName db2inst1 -ResourceType Instance -StorageFootPrint (@(
@{"VolumeName"="DB2_NONRECDB";"LunName"="DB2_NONRECDB";"StorageSystem"="vs
erver_scauto_primary"},
@{"VolumeName"="DB2_NONREC1DB";"LunName"="DB2_NONREC1DB";"StorageSystem"="
vserver_scauto_secondary"},
@{"VolumeName"="DB2_RECDB";"LunName"="DB2_RECDB";"StorageSystem"="vserver_
scauto_primary"}))
```

This example syntax adds a resource with ResourceType for custom Plug-in DB2. ResourceType instance does not have parent Resource type.

The resource named db2inst1 is spread across 3 LUNs of different volumes of same storage system.

Successfully added the following resource

```
PluginName : DB2
Uid: db2inst1
ParentUid  :
SmAppFiles :
SmAppFileStorageGroups : {, , }
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
LastBackupDate :
LastBackupStatus :
IsProtected: False
Name      : db2inst1
Type      : Instance
Id : sccrheldb2.sccore.test.com\DB2\db2inst1
Host      : sccrheldb2.sccore.test.com
UserName   :
Passphrase :
Deleted: False
Auth       : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts      :
```

Example 3: Adding a resource with storage type qtree

```
Add-SmResource -HostName 'sccorelinux188.sccore.test.com' -PluginCode
'DB2' -ResourceName DominoAutoDatabase -ResourceType Database
-StorageFootPrint (@{"QTREENAME
"="inventory_qtree";"VolumeName"="inventory_vol";"StorageSystem"="vserver_
scauto_primary"}) -Instance INST
```

This example syntax adds a resource type of Database for custom plug-in DB2, hosting data on qtree.

```
Cmdlet Output: Successfully added the following resource
PluginName : DummyPlugin
Uid: INST\DominoAutoDatabase
ParentUid  :
SmAppFiles :
SmAppFileStorageGroups : {}
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
LastBackupDate :
LastBackupStatus :
IsProtected: False
Name      : DominoAutoDatabase
Type      : Database
Id : sccorelinux188.sccore.test.com\DummyPlugin\INST\DominoA
utoDatabase
Host      : sccorelinux188.sccore.test.com
UserName  :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts     :
```

Example 4: Adding a resource that includes a LUN inside a qtree

```
Add-SmResource -HostName "10.236.164.10" -PluginCode HANA -ResourceType
instance -ResourceName mixedres -StorageFootPrint
@(@{"storagesystem"="10.232.206.5";"volumename"="dummyvol"},@{"storagesyst
em"="10.232.206.5";"volumename"="dummyvol2";"lunname"="luninsidevol"},@{"s
toragesystem"="10.232.206.5";"volumename"="dummyvol3";"lunname"="qtreeforl
un\luninsideqtree"},@{"storagesystem"="10.232.206.5";"volumename"="dummyvo
l4";"qtreename"="qtreeinsidevol"})
```

This example adds a resource with custom plug-in resource type that includes a LUN inside a qtree.

Successfully added the following resource

```
PluginName : hana
Uid: A12
ParentUid  :
SmAppFiles :
SmAppFileStorageGroups : {, , }
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
LastBackupDate :
LastBackupStatus :
IsProtected: False
Name : mixedres
Type : Instance
Id : sccrhelldb2.sccore.test.com\hana\A12
Host : sccrhelldb2.sccore.test.com
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts :
```

Example 5: Adding a SAP HANA database of SingleContainer type

```
Add-SmResource -HostName 'mva-s63.gdl.englab.netapp.com' -PluginCode
'hana' -SID 'H14' -DatabaseName 'Manual_H14' -ResourceType SingleContainer
-StorageFootPrint
(@{"VolumeName"="R808267D015V1_NFS_H14_SC_DATA_10_229_37_43";"StorageSystem"="10.232.206.133"}) -UserStoreKeys 'KEY01' -OSDBUser 'SYSTEM'
```

This example syntax adds the SingleContainer resource type with specific SID and database name.

```

Successfully added the following resource
PluginName : hana
Uid: H14
ParentUid :
SmAppFiles :
SmAppFileStorageGroups : {}
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
pluginConfiguration: SMCoreContracts.SmSCSAPHANAResourceParameters
AutoDiscovered : False
IsSelectable : True
IsAuthenticated: False
IsProtected: False
ReplicationEnabled : False
LastBackupDate :
LastBackupStatus :
IsWindowsResource : False
Name : Manual_H14
Type : SingleContainer
Id : mva-s63.gdl.englab.netapp.com\hana\H14
Host : mva-s63.gdl.englab.netapp.com
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts :
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0
SizeOfSmObject :

```

Example 6: Adding a SAP HANA Multitenant Database Container resource type

```

Add-SmResource -HostName 'schana02.gdl.englab.netapp.com' -PluginCode
'hana' -DatabaseName MDC -ResourceType MultipleContainers
-StorageFootPrint (
@{"VolumeName"="hana_data2";"StorageSystem"="storage_admin_1"}) -sid 'MT1'
-tenanttype 'MultiTenant' -userstorekeys 'USKMT1' -tenantdatabasename
'MT1' -osdbuser 'root'

```

This example adds a HANA MultiTenant Database Container resource with MultiTenant tenant type. Tenant database names will be detected during backup operations.

```
WARNING: TenantDatabaseName parameter is now deprecated for MultiTenant
database resource, the parameter will be ignored and auto discovered
internally.
Successfully added the following resource
PluginName : hana
Uid: MDC\MT1
ParentUid  :
SmAppFiles :
SmAppFileStorageGroups : {}
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
pluginConfiguration: SMCoreContracts.SmSCSAPHANAResourceParameters
AutoDiscovered : False
IsSelectable    : True
IsAuthenticated: False
LastBackupDate :
LastBackupStatus :
IsProtected: False
IsWindowsResource : False
Name   : MDC
Type   : MultipleContainers
Id : schana02.gdl.englab.netapp.com\hana\MDC\MT1
Host   : schana02.gdl.englab.netapp.com
UserName :
Passphrase :
Deleted: False
Auth   : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts :
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0
SizeOfSmObject :
```

Example 7: Adding an Oracle Application Volume Resource with a volume,lun and qtree

```
Add-SmResource -HostName 'R8092776CF4V1.HNK2.com' -PluginCode 'SCO'
-ResourceName appVol -StorageFootPrint
@(@{"VolumeName"="vol_test1";"StorageSystem"="10.232.206.165"},@{"VolumeName"="vol_test2";"LunName"="lun_test1";"StorageSystem"="10.232.206.165"},@{"Qtreename"="qtree_test1";"VolumeName"="vol_test3";"StorageSystem"="10.232.206.165"})
```

This example adds an Oracle Application Volume Resource which contains a volume, lun, and qtree.

Successfully added the following resource

```
Uid: appVol
    SmAppFileStorageGroups : {, , }
    IsProtected: False
    LastBackupDate :
    LastBackupStatus :
    Name : appVol
    Type : Application Volume
    Id : R8092776CF4V1.HNK2.com\appVol
    Host : R8092776CF4V1.HNK2.com
    UserName :
    Passphrase :
    Deleted: False
    Auth : SMCoreContracts.SmAuth
    IsClone: False
    CloneLevel : 0
    Hosts :
    StorageName:
    ResourceGroupNames :
    PolicyNames:
    Key: 0
    NsmObjectID: 0
    SizeOfSmObject :
```

Example 8: Adding an Oracle Application Volume Resource with a single lun

```
Add-SmResource -HostName 'R8092776CF4V1.HNK2.com' -PluginCode 'SCO'
-ResourceName appVolLun -StorageFootPrint
@{"VolumeName"="vol_test2";"LunName"="lun_test1";"StorageSystem"="10.232.206.165"}
```

This example adds an Oracle Application Volume Resource which contains a single lun

Successfully added the following resource

```
Uid: appVolLun
    SmAppFileStorageGroups : {, , }
    IsProtected: False
    LastBackupDate :
    LastBackupStatus :
    Name : appVolLun
    Type : Application Volume
    Id : R8092776CF4V1.HNK2.com\appVolLun
    Host : R8092776CF4V1.HNK2.com
    UserName :
    Passphrase :
    Deleted: False
    Auth : SMCoreContracts.SmAuth
    IsClone: False
    CloneLevel : 0
    Hosts :
    StorageName:
    ResourceGroupNames :
    PolicyNames:
    Key: 0
    NsmObjectID: 0
    SizeOfSmObject :
```

Example 9: Adding Azure NonDataVolume Resource

```
Add-SmResource -HostName 'scspa2921191001.rtp.openenglab.netapp.com'
-PluginCode 'HANA' -ResourceType 'NonDataVolume' -ResourceName 'R71NDV'
-SID 'R71' -StorageFootPrint
@(@{"StorageConnectionId"=3;"CapacityPool"="manualqospool";"volumeName"="r
avi-16-all"})
```

This example adds an Azure NetApp Volume as NonDataVolume resource

```

Successfully added the following resource
PluginName : hana
Uid: NonDataVolume\R71\R71NDV
ParentUid :
SmAppFiles :
SmAppFileStorageGroups : {}
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
pluginConfiguration: SMCoreContracts.SmSCSAPHANAResourceParameters
AutoDiscovered : False
IsSelectable : True
IsAuthenticated: False
IsProtected: False
ReplicationEnabled : False
SubType:
LastBackupDate :
LastBackupStatus :
IsWindowsResource : False
Name : R71NDV
Type : NonDataVolume
Id :
scspa2921191001.rtp.openenglab.netapp.com\hana\NonDataVolume\R71\R71NDV
Host : scspa2921191001.rtp.openenglab.netapp.com
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts :
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0
SizeOfSmObject :

```

Example 10: Adding Storage Plug-in Resource

```

Add-SmResource -HostName 'scspa2921191001.rtp.openenglab.netapp.com'
-PluginCode 'Storage' -ResourceType 'Storage Resource' -ResourceName
'StorageResTest' -StorageFootPrint
@(@{"VolumeName"="storage_vol_test2";"LunName"="storage_lun_test1";"Storag
eSystem"="10.212.06.135"})

```

This example adds a Storage Plug-in resource

```
Successfully added the following resource
PluginName : Storage
Uid: StorageResTest
ParentUid  :
SmAppFiles :
SmAppFileStorageGroups : {}
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
pluginConfiguration:
AutoDiscovered : False
IsSelectable   : True
IsAuthenticated: False
IsProtected: False
ReplicationEnabled : False
SubType:
LastBackupDate :
LastBackupStatus :
IsWindowsResource : False
Name : StorageResTest
Type : Storage Resource
Id : scspa2921191001.rtp.openenglab.netapp.com\Storage\StorageResTest
Host : scspa2921191001.rtp.openenglab.netapp.com
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts :
StorageName:
ResourceGroupNames :
PolicyNames:
PolicyMap :
Key: 0
NsmObjectID: 0
SizeOfSmObject :
StorageId :
```

Add-SmResourceGroup

Adds a resource group to SnapCenter.

Syntax

```
Add-SmResourceGroup [-ArchivedLocators] <Hashtable[]> [-ResourceGroupName] <String> [-BackupServers] <SmBackupServer> [-PluginCode] <PluginCode> [-EnableEmail] <> [-EmailPreference] <SmEmailNotificationPreference> [-isInternal] <Boolean>
```

Detailed Description

Creates a new resource group. You can specify policies, schedules, verification schedules, and resources to be associated with the resource group.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ArchivedLocators	Specifies in a hashtable the secondary storage system details for each unique primary storage system resource in the resource group. For example:- ArchivedLocators @{Primary="my_vs1:my_vol_iscsi";Secondary="my_vs1:my_vol_iscsi_SECONDARY"}	false	true (ByPropertyName)	
ResourceGroupName	Specifies the name of the resource group that you want create.	true	true (ByPropertyName)	
BackupServers		false	true (ByPropertyName)	
PluginCode	Specifies the plug-in code of the host for which you are creating a backup resource group. Valid values are SCSQL, SCW, and SCO.	true	true (ByPropertyName)	
EnableEmail	Specifies whether to enable or disable email.	false	false	
EmailPreference	Specifies when you will receive e-mail notifications.Possible values: Always, Never, OnError, OnErrorOrWarning.	false	false	
isInternal		false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
Resources	Specifies the list of resources to be associated with the resource group. You must provide the resource information in a hashtable, and it must contain the resource name and type, and the host on which it is located. For example, @{"Host"="localhost";"Type"="SQL Database";"Names"="Instance\Database"} For instance-level backup @{"Host"="localhost";"Type"="SQL Instance";"Names"="Instance"} For availability group backup @{"Host"="localhost";"Type"="SQL Availability Group";"Names"="AG1"} For custom plug-in @{"Host"="sccorelinux61.sscore.test.com";"Uid"="inst1\db1"} Valid Type values are: SQL Database, SQL Instance, SQL Availability Group. You can include comma-separated values for Names. For Oracle Database, the format is @{"Host"="host.example.com";"Oracle Database"="db1,db2,.."}. For Oracle Application Volume, the format is @{"Host"="host.example.com";"Application Volume"="appVol1,appVol2,.."}.	true	true (ByPropertyName)	
Description	Specifies an optional description for the new resource group.	false	true (ByPropertyName)	
Tag	Enables you to apply a unique tag to help identify the resource group.	false	true (ByPropertyName)	
Policies	Specifies the list of policies associated with the resource group. Multiple policies can be added as a comma-separated list.	false	true (ByPropertyName)	
SchedulerCredentialName		false	true (ByPropertyName)	
SchedulerInstance	Specifies the SQL Server Instance where the schedule is created and managed. This is mandatory if the policy has SQL scheduler enabled.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
VerificationServers	Specifies the list of verification servers to be associated with the resource group. Multiple verification servers can be added as a comma-separated list. This parameter is only required when you want to verify backups for SnapCenter Plug-in for Microsoft SQL Server resource groups.	false	true (ByPropertyName)	
CustomSnapshotFormat	Specifies that you want to use a custom Snapshot copy naming format. By default, a timestamp is appended to the Snapshot copy name. Valid values for CustomSnapshotFormat are : \$ResourceGroup, \$Policy, \$HostName, \$ScheduleType, \$CustomText	false	true (ByPropertyName)	
CustomText	Specifies the custom text in the custom Snapshot copy naming format.	false	true (ByPropertyName)	
DeleteBackupForDetachPolicies		false	true (ByPropertyName)	
Schedules	Specifies the schedule parameters to be used in the resource group. Schedule parameters can include the policy name, schedule type, schedule start and end times. You can specify multiple schedules in a comma-separated list, for example:- Schedules @{"PolicyName"="BackupPolicy";"ScheduleType"="OneTime"}, @{"PolicyName"="BackupPolicy";"ScheduleType"="Hourly";"StartTime"=" 05/27/2016 6:13 PM";"EndTime"="05/27/2016 6:30 PM"}	false	true (ByPropertyName)	
SchedulerType	Specifies the scheduler type. Possible values are Windows, SQL, None.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
VerificationSchedules	Specifies the verification schedules you want to add to the resource. The verification schedule includes the following parameters:"VerificationType" which defines if and when verification is performed. The following values are available:VERIFY_SCHEDULEDVERIFY_AFTER_BACKUPNONE"ScheduleType" represents the schedule type for the verification."BackupScheduleType" represents the schedule type for the backup-VerificationServers "WIN-DVGQDI73QR6" needs to be provided in the above command if we are creating verification enabled resource group for SCSQL plugin.	false	true (ByPropertyName)	
BackupArchiveLogsAfterRecentMissingOne	This option is only valid for SCO plugin code. Specifies that you want to backup archive log files, which are created after the most recent missing archive log files and ignore the files created prior to it. If this option is not specified, then all archive log files except the missing archive log files are be backed up.	false	true (ByPropertyName)	
ExcludeArchiveLogPathsFromBackup	This option is only valid for SCO plugin code. Specifies the archive log destinations to be excluded from backup. Archive log files present in the specified destinations will be excluded during log backup. Multiple entries can be specified using comma separated list. For example: -ExcludeArchiveLogPathsFromBackup '/arch/logs/on/local/disk1, '/arch/logs/on/local/disk2'.	false	true (ByPropertyName)	
ConsistencyGroupSnapshot		false	true (ByPropertyName)	
ConsistencyGroupWafSync		false	true (ByPropertyName)	
ConsistencyGroupTimeOut		false	true (ByPropertyName)	
SnapshotCreateCommand		false	true (ByPropertyName)	
UseFileSystemConsistentSnapshot	Specifies that you want to use file system consistent Snapshot copy.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
UseSnapcenterWithoutFileSystemConsistency		false	true (ByPropertyName)	
PreAppQuiesceCmd		false	true (ByPropertyName)	
PostAppQuiesceCmd		false	true (ByPropertyName)	
AppQuiesceCmd		false	true (ByPropertyName)	
AppUnQuiesceCmd		false	true (ByPropertyName)	
PreAppUnQuiesceCmd		false	true (ByPropertyName)	
PostAppUnQuiesceCmd		false	true (ByPropertyName)	
PreExitCmd		false	true (ByPropertyName)	
PreSnapshotCmd		false	true (ByPropertyName)	
PostSnapshotCmd		false	true (ByPropertyName)	
ApplgnoreError		false	true (ByPropertyName)	
UseExternalSnapShot		false	true (ByPropertyName)	
ExternalSnapshotRegex		false	true (ByPropertyName)	
ConfigParams		false	true (ByPropertyName)	
EmailBody	Specifies the body of the email.	false	true (ByPropertyName)	
EmailFrom	Specifies the sender's email address.	true	true (ByPropertyName)	
EmailTo	Specifies the recipient's email address.	true	true (ByPropertyName)	
EmailSubject	Specifies the subject of the email.	true	true (ByPropertyName)	
EnableEmailAttachment		false	true (ByPropertyName)	

Examples

Example 1: Creating a new resource group

```
Add-SmResourceGroup -ResourceGroupName DS26 -PluginCode SMSQL -Policies
BackupPolicy -Resources @{"Host"="host.example.com";"Type"="SQL
Database";"Names"="NB-MVA-DEV054\newdb"}
    -Description test -CustomSnapShotFormat abc -CustomText test
-SchedulerRunAsName admin
    -Schedules
@{"PolicyName"="BackupPolicy";"ScheduleType"="OneTime"},
@{"PolicyName"="BackupPolicy";"ScheduleType"="Hourly";"StartTime"="
05/27/2016 6:13 PM";"EndTime"="'05/27/2016 6:30 PM'"}
    -SchedulerType Windows
```

This example syntax creates a new resource group.

Example 2: Adding a resource group for custom plugin with consistency group Snapshot copy enabled

```
Add-SmResourceGroup -ResourceGroupName 'ResourceGroup_with_CG' -Resources
@(@{"Host"="sccorelinux61.sscore.test.com";"Uid"="inst1\db1"},@{"Host"="sc
corelinux61.sscore.test.com";"Uid"="inst1\db2"}) -Policies primaryonly
-consistencygroupsnapshot 1 -usesnapcenterwithoutfilesystemconsistency
-plugincode 'DB2'
```

This example syntax creates a resource group of two DB2 databases with Consistency Group Snapshot copies enabled.

Example 3: Creating a resource group with scheduled verification

```
Add-SmResourceGroup -ResourceGroupName DS26 -PluginCode SMSQL -Policies
BackupPolicy -Resources @{"Host"="host.example.com";"Type"="SQL
Database";"Names"="NB-MVA-DEV054\newdb"} -Description test
-CustomSnapShotFomat abc -CustomText test -SchedulerRunAsName admin
-Schedules @{"PolicyName"="BackupPolicy";"ScheduleType"="OneTime"},
@{"PolicyName"="BackupPolicy";"ScheduleType"="Hourly";"StartTime"="
05/27/2016 6:13 PM";"EndTime"="'05/27/2016 6:30 PM'"} -SchedulerType
Windows -VerificationSchedules
@{"BackupScheduleType"="Hourly";"DeferredBackupCount"="1";"VerificationTyp
e"="VERIFY_SCHEDULED";"VerifyOnSecondary"="true";"BackupPolicyName"="Backu
pPolicy";"ScheduleType"="Weekly";"DaysOfTheWeek"="Monday";"StartTime"="20-
Jul-16 6:42:12 PM";"EndTime"="25-Jul-16 6:42:12
PM"},@{"BackupScheduleType"="Daily";"DeferredBackupCount"="2";"Verificatio
nType"="VERIFY_SCHEDULED";"VerifyOnSecondary"="false";"BackupPolicyName"="
BackupPolicy";"ScheduleType"="Monthly";"StartTime"="20-Jul-16 6:42:12
PM";"EndTime"="25-Jul-16 6:42:12
PM";"MonthofTheYear"="March";"DaysoftheMonth"="15"} -ArchivedLocators
@{Primary="test_vserver:vol_ash_test";Secondary="test_vserver:test_vserver
_vol_ash_test_vault"}
```

This example syntax creates a new resource group with verification.

Example 4: Creating a resource group with scheduled verification and verification after backup

```
Add-SmResourceGroup -ResourceGroupName RG27 -PluginCode SCO -Policies
BackupPolicy -Resources @{"Host"="host.example.com";"Oracle
Database"="newdb"} -Description test -CustomSnapShotFomat abc -CustomText
test -SchedulerRunAsName admin -Schedules
@{"PolicyName"="BackupPolicy";"ScheduleType"="Weekly";"DaysOfTheWeek"="Sun
day"},
@{"PolicyName"="BackupPolicy";"ScheduleType"="Monthly";"StartTime"="
05/27/2016 6:13 PM";"EndTime"="05/27/2016 6:30
PM";"MonthsofTheYear"="March";"DaysoftheMonth"="2"} -SchedulerType Windows
-VerificationSchedules
@{"BackupScheduleType"="Weekly";"DeferredBackupCount"="1";"VerificationTyp
e"="VERIFY_SCHEDULED";"VerifyOnSecondary"="true";"BackupPolicyName"="Backu
pPolicy";"ScheduleType"="Weekly";"DaysOfTheWeek"="Monday";"StartTime"="20-
Jul-16 6:42:12 PM";"EndTime"="25-Jul-16 6:42:12
PM"},@{"BackupScheduleType"="Monthly";"DeferredBackupCount"="2";"Verificat
ionType"="VERIFY_AFTER_BACKUP";"VerifyOnSecondary"="false";"BackupPolicyNa
me"="BackupPolicy"}
```

This example syntax creates a new resource group with scheduled verification and verification after backup.

Example 5: Adding an Always On availability group

```
Add-SmResourceGroup -ResourceGroupName AG_Prod -Resources
@{"Host"="myag1";"Type"="SQL Availability Group";"Names"="AG_Prod"}
-PluginCode SMSQL -Policies "SQL Daily Full" -Schedules
@{"PolicyName"="SQL Daily
Full";"ScheduleType"="Daily";"StartTime"="10/28/2017 6:13
PM";"EndTime"="" } -schedulerType SQL -SchedulerInstance SQL1
```

This example syntax adds an Always On availability group named AG_Prod to a SnapCenter resource group.

Example 6: Adding a resource group for HANA plugin

```
Add-SmResourceGroup -ResourceGroupName '43RG57' -Resources
@{"Host"="schana02.gdl.englab.netapp.com";"Uid"="MDC\R57"} -plugincode
'hana' -Policies 'HANAPOLICY'
```

This example adds a resource group for HANA plug-in.

Tag :
ByPassRunAs : False
Configuration : SMCoreContracts.SmConfiguration
CreationTime: 02-Oct-19 21:38:06
CustomSnapshotFormat:
CustomText :
Description :
EmailBody :
EmailFrom :
EmailNotificationPreference :
EmailSMTPServer :
EmailSubject:
EmailTo :
EnableAsupOnFailure :
EnableEmail :
EnableSysLog:
HostResourceMapping : {}
IsCustomSnapshot:
LastBackupStatus:
MaintenanceStatus : Production
ModificationTime: 02-Oct-19 21:38:06
PluginProtectionGroupTypes : {hana}
Policies: {}
ProtectionGroupType : Backup
SchedulerSQLInstance:
SearchResources : False
VerificationServer :
VerificationServerInfo : SMCoreContracts.SmVerificationServerInfo
Name: 43RG57
Type: Group
Id : 1
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0
SizeOfSmObject :

Example 6: Creating a resource group and attaching hourly backup policy

```
Add-SmResourceGroup -ResourceGroupName ResourceGroup1 -Description test
-Resources @{"Host"="C226030161613-1";"Type"="SQL
Database";"Names"="C226030161613-1\NAMEDINST1\C226030161613_1_SDML_1"}
-Policies Full_Backup_Log_Backup_Windows_Schedule_Policy_54615264
-schedulertype 'Windows' -plugincode 'SCSQL' -schedules
@{"PolicyName"="Hourly_Full_log_Backup_Wtih_Ver_Policy_09959383";"StartTim
e"="05/21/2019 7:54 PM";"EndTime"="05/21/2019 8:03
PM";"ScheduleType"="Hourly";"RepeatTask_Every_Hour"="03:00"}
```

Example 7: Creating a resource group and attaching daily backup policy

```
Add-SmResourceGroup -ResourceGroupName ResourceGroup1 -Description
'Backup ResourceGroup with Full and log backup policy with Daily SQL
schedule' -Resources @{"Host"="C226030161613-1";"Type"="SQL
Database";"Names"="C226030161613-1\NAMEDINST1\C226030161613_1_SDML_1"}
-Policies Full_Backup_Log_Backup_SQL_Schedule_Policy_54615264
-schedulerinstance 'C226030161613-1\NAMEDINST1' -plugincode 'SCSQL'
-schedulerrunasname 'DomainRunAs_54615264' -schedulertype 'SQL' -schedules
@{"PolicyName"="Daily_Full_Log_Backup_With_Ver_Policy_09959383";"StartTime
"="05/21/2019 8:09 PM";"EndTime"="05/21/2019 9:18
PM";"ScheduleType"="Daily";"daysInterval"="1"}
```

Example 8: Creating a resource group and attaching weekly backup policy

```
Add-SmResourceGroup -ResourceGroupName ResourceGroup1 -Description
'Backup ResourceGroup with Full and log backup policy with hourly windows
schedule' -Resources @{"Host"="C226030161613-1";"Type"="SQL
Database";"Names"="C226030161613-1\NAMEDINST1\C226030161613_1_SDML_1"}
-Policies Full_Backup_Log_Backup_Windows_Schedule_Policy_54615264
-schedulertype 'Windows' -plugincode 'SCSQL' -schedules
@{"PolicyName"="Weekly_Full_Backup_With_Ver_Policy_09959383";"StartTime"="
05/21/2019 8:24 PM";"EndTime"="05/21/2019 8:41
PM";"ScheduleType"="Weekly";"DaysOfTheWeek"="Tuesday"}
```

Example 9: Creating a resource group and attaching monthly backup policy

```
Add-SmResourceGroup -ResourceGroupName ResourceGroup1 -Description
'Backup ResourceGroup with Full and log backup policy with hourly windows
schedule' -Resources @{"Host"="C226030161613-1";"Type"="SQL
Database";"Names"="C226030161613-1\NAMEDINST1\C226030161613_1_SDML_1"}
-Policies Full_Backup_Log_Backup_Windows_Schedule_Policy_54615264
-schedulertype 'Windows' -plugincode 'SCSQL' -schedules
@{"PolicyName"="Monthly_Full_Backup_With_Ver_Policy_09959383";"StartTime"=
"05/21/2019 8:51 PM";"EndTime"="05/21/2019 9:18
PM";"ScheduleType"="Monthly";"MonthsOfTheYear"="May, June";"daysOfTheMonth"
="21,26,16"}
```

Example 10: Creating a new resource group in SCE plugin

```
Add-SmResourceGroup -ResourceGroupName RGName -Description test -Policies
BackupPolicy -backupservers replicaServers -plugincode SCE -Resources
@{"Host"="host.example.com";"Type"="SnapCenter Plug-in for Microsoft
Exchange Server";"Names"="host.example.com4\newdb"}
```

Example 11: Creating a new resource group for Oracle Plug-in

```
Add-SmResourceGroup -ResourceGroupName 'mixedRG' -Resources
@(@{"Host"="R809278EA03V1.HNK2.com";"Oracle
Database"="DB11,DB12"},@{"Host"="R8092776CF4V1.HNK2.com";"Application
Volume"="appVol1,appVol2"}) -plugincode 'SCO' -Policies 'testPolicy'
```

This example syntax creates a new resource group for Oracle Plug-in containing database and application volume resources.

Example 12: Creating a new resource group for Oracle Plug-in

```
Add-SmResourceGroup -ResourceGroupName 'appVolRG' -Resources
@{"Host"="R8092776CF4V1.HNK2.com";"Application Volume"="appVol1,appVol2"}
-plugincode 'SCO' -Policies 'testPolicy'
```

This example syntax creates a new resource group for Oracle Plug-in with only application volume resources.

Example 6: Adding a resource group for UnixFileSystems plugin

```
Add-SmResourceGroup -ResourceGroupName 'RG_PS_linuxfs201_LVM1_12648'
-Resources
@{"Host"="linuxfs201.gdl.englab.netapp.com";"Type"="UnixFileSystems";Uid="=
"/netapp/VGNFS1/LVM1"} -plugincode 'UnixFileSystems' -Policies
'BackupPS_linuxfs201_LVM1_12648'
```

This example adds a resource group for UnixFileSystems plug-in.

```
Tag :
ByPassRunAs : False
Configuration : SMCoreContracts.SmConfiguration
CreationTime: 12/12/2023 8:29:30 AM
CustomSnapshotFormat:
CustomText :
Description : Creating Resource Group
EmailBody :
EmailFrom :
EmailNotificationPreference :
EmailSMTPServer :
EmailSubject:
EmailTo :
EnableAsupOnFailure :
EnableEmail :
EnableSysLog:
HostResourceMapping : {}
IsCustomSnapshot:
LastBackupStatus:
MaintenanceStatus : Production
ModificationTime: 12/12/2023 8:29:30 AM
PluginProtectionGroupTypes : {UnixFileSystems}
Policies: {}
ProtectionGroupType : Backup
SchedulerSQLInstance:
SearchResources : False
VerificationServer :
VerificationServerInfo :
SMCoreContracts.SmVerificationServerInfo
Name: RG_PS_linuxfs201_LVM1_12648
Type: Group
Id : 173
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
```

```

IsClone : False
CloneLevel : 0
Hosts : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0
SizeOfSmObject :

```

Add-SmResourceToUser

Adds resources to an existing user.

Syntax

```

Add-SmResourceToUser [-UserName] <String> [-ResourceNames] <String> [-
ResourceType] <OperationAssignmentType> [-UserGroupObjectType]
<SmUserGroupObjectType>

```

Detailed Description

Adds resources to an existing user. The resources can be a resource group, credential, host, policy, storage connection or plug-in.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
UserName	Name of the domain\user.	true	true (ByPropertyName)	
ResourceNames	Name of the resources to be assigned. You can use a comma to separate multiple resources.	false	true (ByPropertyName)	
ResourceType	The type of resource being added to the user. Possible values are Credential, StorageConnection, Policy, Plugin, Host, and ResourceGroup.	true	true (ByPropertyName)	
UserGroupObjectType	Specifies that the domain\username to which you are adding a resource is a group.	false	true (ByPropertyName)	

Examples

Example 1: Adding a host resource to an user

```
Add-SmResourceToUser -UserName sddev\administrator -ResourceNames clab-a13-13.sddev.mycompany.com -ResourceType Host
```

This example syntax assigns a host resource to the user.

Example 2: Adding a resource group to an user

```
Add-SmResourceToUser -UserName sddev\administrator -ResourceNames FinanceResourceGroup -ResourceType ResourceGroup
```

This example syntax assigns the FinanceResourceGroup resource group to the sddev\administrator user.

Example 3: Adding an credential to an user

```
Add-SmResourceToUser -UserName sddev\administrator -ResourceNames Cred_1 -ResourceType Credential
```

This example syntax assigns the Cred_1 credential resource to the sddev\administrator user.

Example 4: Adding a policy to an user

```
Add-SmResourceToUser -UserName sddev\administrator -ResourceNames testPol -ResourceType Policy
```

This example syntax assigns the testPol policy resource to the sddev\administrator user.

Example 5: Adding a storage connection to an user

```
Add-SmResourceToUser -UserName sddev\administrator -ResourceNames svm1 -ResourceType StorageConnection
```

This example syntax assigns the svm1 storage connection resource to the sddev\administrator user.

Example 6: Adding all the resources to an user

```
Add-SmResourceToUser -UserName sddev\administrator -ResourceType All
```

This example syntax assigns all the resources to the sddev\administrator user.

Add-SmServer

Adds the SC server to the High Availability cluster

Syntax

```
Add-SmServer [-Credential] <PSCredential> [-ServerNameString] <String>
[-ServerIPString] <String> [-CleanUpSecondaryServerSwitchParameter]
<String>
```

Detailed Description

Adds the given SC server to the existing High Availability cluster as secondary node. SnapCenter repository data from primary server will be replicated to the secondary server for HA.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Credential	Provides domain user credentials for the user to setup High Availability cluster configuration.	true	true (ByPropertyName)	
ServerName	Secondary SC server name.	false	false	
ServerIP	Secondary SC server IP Address.	true	false	
CleanUpSecondaryServer	Specifies whether to cleanup secondary server. The value is either True or False.	false	false	

Examples

Example 1: Adding SnapCenter Server to High Availability cluster

```
Add-SmServer -Credential sddev\administrator -ServerIP 10.225.231.149
```

This example Adds SnapCenter Server to High Availability cluster.

```

Name: Adding SC Server 10.225.231.149 to High Availability cluster
Id : 105
StartTime : 9/10/2019 4:11:38 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Running
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 38
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName : NONE
HostId : 0
RoleId :
JobIds : {}
Monitor the progress of job 105 in the Job Monitor page or by running the
cmdlet: 'Get-SmJobSummaryReport -JobId 105'

```

Add-SmServerCluster

Creates the High Availability cluster configuration on the SnapCenter Server.

Syntax

```

Add-SmServerCluster [-Credential] <PSCredential> [-ClusterNameString]
<String> [-ClusterIPString] <String> [-PrimarySCServerIPString]
<String>

```

Detailed Description

Creates High Availability cluster configuration on the SnapCenter Server with the given cluster IP Address. Routing from the cluster URL to SC server(s) should be configured in the Load balancing tool. For the SC Server given IP Address will be included in the HA configuration, if the SC server has more than one IP

Address then choose the one that you want to use for HA configuration and ensure the same IP Address is configured in the load balancing tool.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Credential	Provides domain user credentials for the user to setup High Availability cluster configuration.	true	true (ByPropertyName)	
ClusterName	F5 cluster name.	false	false	
ClusterIP	F5 Cluster IP Address.	true	false	
PrimarySCServerIP	Primary SC Server IP Address.	true	false	

Examples

Example 1: Creating High Availability cluster configuration on the SnapCenter Server

```
Add-SmServerCluster -Credential sddev\administrator -ClusterIP 10.235.236.190 -ClusterName f5pool -PrimarySCServerIP 10.235.236.193
```

This example creates the High Availability cluster configuration on the SnapCenter Server.

```

Name: Configure High Availability for SnapCenter Server
Id : 21
StartTime : 9/3/2019 5:25:10 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Running
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 38
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName : NONE
HostId : 0
RoleId :
JobIds : {}

```

Add-SmStorageConnection

Creates a new storage system connection.

Syntax

```

Add-SmStorageConnection [-Storage] <String> [-Port] <UInt16> [-
Protocol] <ConnectProtocol> [-Timeout] <Int32> [-Credential]
<PSCredential> [-PreferredIP] <String> [-DisableAsupOnFailure] <> [-
DisableSysLog] <> [-Type] <StorageSystemType> [-PlatformType]
<String> [-NetAppAccountName] <String> [-CredentialName] <String> [-
CredentialId] <bigint(20)> [-ResourceGroup] <String> [-IsSecondary]
<>

```

Detailed Description

Creates a new storage system connection. You must create your storage system connection in advance of performing any provisioning or data protection jobs.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Storage		true	true (ByPropertyName)	
Port	Specifies the port for the storage system connection. 80 is the default port for HTTP and 443 is the default port for HTTPS.	false	true (ByPropertyName)	
Protocol	Specifies the communication protocol you want to use to connect to the storage system. Valid values is: HTTPS.	true	true (ByPropertyName)	
Timeout	Specifies the storage system connection timeout in seconds. The default timeout is 60 seconds. However, in a scaled environment, increasing the timeout to 300 seconds is recommended.	false	true (ByPropertyName)	60
Credential	Specifies the storage system credentials. You must have created valid storage system credentials in advance.	true	true (ByPropertyName)	
PreferredIP	Specifies the preferred IP address for the storage system management or data LIF IP address.	false	true (ByPropertyName)	
DisableAsupOnFailure	Disables Auto Support in case of any failure.	false	true (ByPropertyName)	
DisableSysLog	Disables system log.	false	true (ByPropertyName)	
Type	Specifies the type of storage being added. Valid value are DataOntap and AzureNetAppAccount.	false	true (ByPropertyName)	
NetAppAccountName	Specifies the Azure NetApp Account Name.	true	true (ByPropertyName)	
CredentialName	Specifies Azure NetApp Credential name.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
CredentialId	Specifies Azure NetApp Credential ID.	false	true (ByPropertyName)	
ResourceGroup	Specifies resource group.	true	true (ByPropertyName)	
SubscriptionId	Specifies Subscription Id.	true	true (ByPropertyName)	
PlatformType	This optional parameter specifies the SVM platform type for licensing purposes. Possible values are Hardware and Software. Hardware indicates that you are using a FAS or All Flash FAS platform. Software indicates that you are using ONTAP Cloud or ONTAP Select. If you specify Type as ONTAP SVM as the storage connection type, and you do not specify PlatformType, the default value is set to Hardware.	false	true (ByPropertyName)	
IsSecondary		false	true (ByPropertyName)	

Examples

Example 1: Creating a new storage system connection

```
Add-SmStorageConnection -SVM neeraj_vs1 -Protocol Https -Timeout 60
```

This example syntax creates a new storage system connection.

```

cmdlet Add-SmStorageConnection at command pipeline position 1
Supply values for the following parameters:
(Type !? for Help.)
Credential
UserName:
Password:
Port: 443
TransportType : Https
ModifyTime : 1/1/0001 12:00:00 AM
Mode:
OntapiMajorVersion :
OntapiMinorVersion :
Version : NetApp Release 8.2.1RC2X9 Cluster-Mode: Mon Jan 13 09:30:32 PST
2014
StorageSystemOSType : DataOntap
Passphrase :
Id : 0
Timeout : 60
Uuid:
OperationContext:
PreferredIpAddress :
Aliases : {neeraj_vs1-mc, neeraj_vs1}
SmIPAddresses : {SMCoreContracts.SmIPAddress,
SMCoreContracts.SmIPAddress, SMCoreContracts.SmIPAddress,
SMCoreContracts.SmIPAddress...}
IPAddresses : {172.17.124.165, 172.17.124.165, 172.17.124.165,
172.17.124.165...}
Name: test_vs1
IsResolved : True
IsValid : True
Identity: test_vs1

```

Example 2: Creating a new Azure NetApp Account using credential name

```

Add-SmStorageConnection -Type AzureNetAppAccount -NetAppAccountName
"azureNetappAccount1" -SubscriptionId 5199ff02-31d1-4a57-afd1-3039bcbdf9aa
-CredentialName "AzureCred1" -ResourceGroup "azure_rgl"

```

This example syntax creates a new Azure NetApp Account using credential name.

Example 3: Creating a new Azure NetApp Account using credential ID

```
Add-SmStorageConnection -Type AzureNetAppAccount -NetAppAccountName
"azureNetappAccount1" -SubscriptionId 5199ff02-31d1-4a57-afd1-3039bcbdf9aa
-CredentialId 1 -ResourceGroup "azure_rg1"
```

This example syntax creates a new Azure NetApp Account using credential ID.

Add-SmUser

Adds AD users or local workgroup users to SnapCenter.

Syntax

```
Add-SmUser [-UserName] <SmString> [-Domain] <String> [-RoleNames]
<SmString>
```

Detailed Description

Adds Active Directory users or local workgroup users to SnapCenter.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
UserName	Single user or list of users belonging to the same domain or workgroup.	true	true (ByPropertyName)	
Domain	Domain to which the user belongs to. Workgroup users should skip this parameter.	false	true (ByPropertyName)	
RoleNames	Single or list of existing pre-canned or custom roles to which the user should be added to. At least one role should be specified while adding the user.	true	true (ByPropertyName)	

Examples

Example 1: Adding a single user

```
Add-SmUser -UserName user1 -RoleNames role1,role2 -Domain domain1
```

Example 2: Adding multiple users of the same domain

```
Add-SmUser -UserName user1,user2 -RoleNames role1 -Domain domain1
```

Example 3: Adding workgroup user

```
Add-SmUser -UserName LocalUser1 -RoleNames role1
```

Add-SmUserToRole

Adds a user to a role.

Syntax

```
Add-SmUserToRole [-UserName] <SmString> [-RoleName] <String> [-Domain]  
<String>
```

Detailed Description

Adds a user to a role.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
UserName	Specifies the domain\user you want to add.	true	true (ByPropertyName)	
RoleName	Specifies the name of the role to which you want to add a user.	true	true (ByPropertyName)	
Domain	The domain to which the user belongs to. Workgroup users should skip this parameter.	false	true (ByPropertyName)	

Examples

Example 1: Adding a user to a role

```
Add-SmUserToRole -UserName snapdrive -Domain sddev -RoleName  
SnapCenterAdmin
```

This example adds the specified user to the SnapCenter Admin role.

Add-SmVerificationServer

Adds a verification server.

Syntax

```
Add-SmVerificationServer [-Name] <String> [-HostName] <String> [-UseDriveLetter] <> [-MountPointPath] <String> [-MaxJobCount] <Int32> [-CredentialName] <String> [-PluginCode] <PluginCode> [-Description] <String>
```

Detailed Description

Adds a verification server. A verification server is used in a SnapCenter Plug-in for Microsoft SQL Server environments to run an integrity check of the backups. It is a SQL Server instance, on which you run backup verification. Verification is a CPU intensive operation, so it is recommended that you set up a dedicated verification server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Specifies the SQL Server instance that you want to use as the verification server.	true	true (ByPropertyName)	
HostName	Specifies the host on which you want the verification server to be located. You can have more than one verification server located on the same host.	false	true (ByPropertyName)	
UseDriveLetter	Specifies that you want to use an available drive letter for mounting the Snapshot copy for verification. To perform backup verification, the Snapshot copy is mounted and then DBCC checkdb is run. If you do not specify UseDriveLetter, the Snapshot copy is mounted using a mount point path you specify.	false	true (ByPropertyName)	False
MountPointPath	Species the default mount point path you want to use to mount the Snapshot copy for verification.	true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
MaxJobCount	Specifies the maximum number of verification jobs that can be run concurrently on the verification server. The default is 1 job. It is recommended that you increase this parameter with caution. The recommended maximum job count is 5.	false	true (ByPropertyName)	1
CredentialName		false	true (ByPropertyName)	
PluginCode	Provides the SnapCenter plug-in code. For example, if you want to use the SnapCenter Plug-in for Microsoft SQL Server, the plug-in code is SCSQL. If you do not specify this parameter, MSFT_SQL is the default.	false	true (ByPropertyName)	
Description	Provides an optional description for the verification server you are setting up.	false	true (ByPropertyName)	

Examples

Example 1: Adding a verification server

```
Add-SmVerificationServer -Name mva-s51/instance1 -HostName mva-s51
-UseDriveLetter -MountPointPath c:\temp -MaxJobCount 1 -PluginCode SCSQL
```

This example syntax adds a verification server.

```
Name: mva-s51/instance1
HostName:
PlugIn :
UseDriveLetterIfAvail : True
DefaultMountPointFolder : c:\temp
MaxJobCount : 1
Description :
EndpointURI :
PluginVersion :
```

Cancel-SmJob

Cancels backup, clone, and verification jobs, which are in queued state. This cmdlet also cancels the running SnapCenter Plug-in for SQL Server and SnapCenter Plug-in for

Oracle backup jobs.

Syntax

```
Cancel-SmJob [-JobId] <Int32> [-Force] <>
```

Detailed Description

Enables you to cancel the queued backup, clone, and verification jobs, as well as the running restore and clone jobs for all plug-ins. You can also cancel the running SnapCenter Plug-in for SQL Server and SnapCenter Plug-in for Oracle backup jobs. This cmdlet does not cancel running backup jobs for SnapCenter Plug-in for Exchange, SnapCenter Plug-in for VMware vSphere, SnapCenter Plug-in for SAP HANA, or SnapCenter Custom Plug-ins. This cmdlet replaces the Cancel-SmQueuedJob cmdlet that was available in earlier versions of SnapCenter.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
JobId	Specifies the ID of the job you want to cancel.	true	false	
Force	This optional parameter cancels a hung job that is running or queued.	false	false	

Examples

Example 1: Canceling a Running/Queued job

```
Cancel-SmJob -JobId 231
```

This example syntax cancels the backup job which is either running or queued.

```
Cancel-SmJob
Job 231 will be canceled. Do you want to continue?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y
```

Example 2: Canceling a Running/Queued job with Force option

```
Cancel-SmJob -JobId 231 -Force
```

This example syntax cancels the backup job which is hung during canceling or running state.

```
Cancel-SmJob
Job 231 will be canceled. Do you want to continue?
```

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

Cancel-SmRestoreJob

Cancels the restore jobs, which are in queued state. This cmdlet also cancels the running SnapCenter Plug-in restore jobs.

Syntax

```
Cancel-SmRestoreJob [-JobId] <Int32>
```

Detailed Description

Enables you to cancel the queued restore jobs and the running restore jobs for all the plug-ins.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
JobId		true	false	

Examples

Catalog-SmBackupWithOracleRMAN

Catalogs an Oracle backup.

Syntax

```
Catalog-SmBackupWithOracleRMAN [-PluginCode] <PluginCode> [-BackupId] <String> [-BackupName] <String> [-AppObjectId] <String> [-ArchivedLocators] <Hashtable[]> [-LogArchivedLocators] <Hashtable[]>
```

Detailed Description

Catalogs the Oracle Database backup in SnapCenter with Oracle Recovery Manager (RMAN).

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PluginCode	Specifies the plug-in code of the resource to be cataloged.	true	false	

Name	Description	Required ?	Pipeline Input	Default Value
BackupId	Specifies the id of backup that needs to be cataloged.	false	false	
BackupName	Specifies the name of backup that needs to be cataloged.	false	false	
AppObjectId	Specifies the ID of the application object.	false	true (ByPropertyName)	
ArchivedLocators	Specifies the secondary storage system details in a hashtable for each unique primary data storage system resource in the resource group. For example:- ArchivedLocators @{Primary="my_vs1:my_data_vol";Secondary="my_vs1:my_data_vol_SECONDARY"}	false	true (ByPropertyName)	
LogArchivedLocators	Specifies the secondary storage system details in a hashtable for each unique primary log storage system resource in the resource group. For example:- LogArchivedLocators @{Primary="my_vs1:my_log_vol";Secondary="my_vs1:my_log_vol_SECONDARY"}	false	true (ByPropertyName)	

Examples

Example 1: Cataloging a SCO backup using backupId

```
Catalog-SmBackupWithOracleRMAN -PluginCode SCO -BackupId 7
```

This example syntax catalogs a SCO backup using backupId.

```
Name: Cataloging Backup(s)
      scspr1894465002_gdl_englab_netapp_com_TSPITRDB_scspr1894465002_08-06-
2020_01.13.03.7681_1
Id   : 42
StartTime   : 8/7/2020 1:40:18 AM
EndTime    :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible   : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status      : Queued
Owner       :
Error       :
Priority     : None
Tasks       : {}
ParentJobID : 0
EventId     : 0
JobTypeId   : 28
ApisJobKey   :
ObjectId    : 0
PluginCode   : SCO
PluginName   : SnapCenter Plug-in for Oracle Database
HostId      : 0
RoleId      :
JobIds      : {}
```

Example 2: Cataloging a SCO backup using backupname

```
Catalog-SmBackupWithOracleRMAN -PluginCode SCO -BackupName
scspr1894465002_gdl_englab_netapp_com_TSPITRDB_scspr1894465002_08-06-
2020_04.13.23.4083_1
```

This example syntax catalogs a SCO backup using backupname.

```
Name: Cataloging Backup(s)
      scspr1894465002_gdl_englab_netapp_com_TSPITRDB_scspr1894465002_08-06-
2020_04.13.23.4083_1
Id   : 44
StartTime   : 8/7/2020 1:45:09 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId      : 0
JobTypeId     : 28
ApisJobKey    :
ObjectId      : 0
PluginCode    : SCO
PluginName    : SnapCenter Plug-in for Oracle Database
HostId       : 0
RoleId       :
JobIds       : {}
```

Example 3: Cataloging a SCO data backup from the secondary mirror location

```
Catalog-SmBackupWithOracleRMAN -PluginCode SCO -BackupName rg1_galaxy-
vm134_08-08-2020_15.11.16.3564_0 -ArchivedLocators
@{Primary="buck.gdl.englab.netapp.com:nasvol14";Secondary="squint:buck_nas
vol14_mirror"}
```

This example syntax catalogs a SCO data backup from the secondary mirror location.

```
Name: Cataloging Backup(s)
  rg1_galaxy-vm134_08-08-2020_15.11.16.3564_0
Id   : 45
StartTime   : 8/7/2020 1:47:09 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority: None
Tasks       : {}
ParentJobID  : 0
EventId      : 0
JobTypeId    : 28
ApisJobKey   :
ObjectId     : 0
PluginCode   : SCO
PluginName   : SnapCenter Plug-in for Oracle Database
HostId       : 0
RoleId       :
JobIds       : {}
```

Example 4: Cataloging a SCO log backup from the secondary vault location

```
Catalog-SmBackupWithOracleRMAN -PluginCode SCO -BackupName rg1_galaxy-
vm134_08-08-2020_15.11.16.3564_1 -LogArchivedLocators
@{Primary="buck.gdl.englab.netapp.com:nasvol13";Secondary="squint:buck_nas
vol13_vault"}
```

This example syntax catalogs a SCO log backup from the secondary vault location.

```
Name: Cataloging Backup(s)
  rg1_galaxy-vm134_08-08-2020_15.11.16.3564_1
Id   : 46
StartTime   : 8/7/2020 1:50:09 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description    :
Status        : Queued
Owner         :
Error         :
Priority       : None
Tasks         : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 28
ApisJobKey    :
ObjectId       : 0
PluginCode    : SCO
PluginName    : SnapCenter Plug-in for Oracle Database
HostId        : 0
RoleId        :
JobIds        : {}
```

Example 5: Cataloging a SCO data backup for the desired database

```
Catalog-SmBackupWithOracleRMAN -PluginCode SCO -BackupName rg1_galaxy-
vm134_08-08-2020_15.11.16.3574_0 -AppObjectId 'galaxy-
vm134.gdl.englab.netapp.com\DB14'
```

This example syntax catalogs a SCO backup for the desired database.

```
Name: Cataloging Backup(s)
  rg1_galaxy-vm134_08-08-2020_15.11.16.3574_0
Id   : 48
StartTime   : 8/7/2020 1:55:09 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description    :
Status        : Queued
Owner         :
Error         :
Priority       : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 28
ApisJobKey    :
ObjectId      : 0
PluginCode    : SCO
PluginName    : SnapCenter Plug-in for Oracle Database
HostId        : 0
RoleId        :
JobIds        : {}
```

Configure-SmDatabase

Configures database in SnapCenter.

Syntax

```
Configure-SmDatabase [-PluginCode] <PluginCode> [-ResourceId] <String>
[-HDBSQLUser] <String> [-HDBUserStoreKey] <String> [-PluginCode]
<PluginCode> [-ResourceId] <String> [-CredentialName] <String>
```

Detailed Description

Configure database settings in SnapCenter.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	------------	----------------	---------------

Examples

Example: Configuring HANA resource

```
Configure-SmDatabase -PluginCode HANA -ResourceId "test" -HDBSQLUser "test" -HDBUserStoreKey "test"
```

This example shows how to configure database credentials for HANA Database.

Successfully updated the database configuration details.

Example: Configuring MYSQL resource

```
Configure-SmDatabase -PluginCode MYSQL -ResourceId "lvm-rhel65-71.netapp.com\MySQL\mysqld_3306" -CredentialName "mysql_cred"
```

This example shows how to configure database credentials for MYSQL Database when passing existing credential.

Successfully updated the cluster/instance configuration details.

Example: Configuring POSTGRESQL resource

```
Configure-SmDatabase -PluginCode POSTGRESQL -ResourceId "scs000351114.netapp.com\PostgreSQL\postgres_5432" -CredentialName "postgres_cred"
```

This example shows how to configure database credentials for POSTGRESQL Database when passing existing credential.

Successfully updated the cluster/instance configuration details.

Configure-SmOracleDatabase

Configures Oracle Database in SnapCenter. This includes configuring database authentication with port, ASM authentication with port and Oracle Recovery Manager (RMAN) catalog database. For Oracle RAC database, preferred nodes for backup operation can be configured.

Syntax

```
Configure-SmOracleDatabase [-AppObjectId] <String> [-  
DatabaseCredentialName] <String> [-AsmCredentialName] <String> [-  
OracleRmanCatalogTnsName] <String> [-OracleRmanCatalogCredentialName]  
<String> [-ASMPort] <Int32> [-DatabasePort] <Int32> [-  
OracleRACPreferredNodes] <String>
```

Detailed Description

Configures Oracle Database in SnapCenter. This includes configuring database authentication with port, ASM authentication with port and Oracle Recovery Manager (RMAN) catalog database. For Oracle RAC database, preferred nodes for backup operation can be configured.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
AppObjectId	Specifies the application object identifier of an Oracle Database that needs to be configured. You need to specify the application object identifier format as 'host\database' for Oracle standalone database or 'clustername\database' for Oracle RAC database.	true	true (ByPropertyName)	
DatabaseCredentialName		false	true (ByPropertyName)	
AsmCredentialName		false	true (ByPropertyName)	
OracleRmanCatalogTnsName	Specifies the TNS name of Oracle Recovery Manager (RMAN) catalog database.	false	true (ByPropertyName)	
OracleRmanCatalogCredentialName		false	true (ByPropertyName)	
ASMPort	Specifies the port where the Oracle ASM listener is running.Default: 1521	false	true (ByPropertyName)	1521
DatabasePort	Specifies the port where the Oracle Database listener is running.Default: 1521	false	true (ByPropertyName)	1521

Name	Description	Required ?	Pipeline Input	Default Value
OracleRACPreferredNodes	Specifies one or more Oracle RAC database preferred nodes you want to configure for backup operation. Oracle RAC Nodes must be specified in a comma separated values in the order of their preference.	false	true (ByPropertyName)	

Examples

Example 1: Configure database credentials for Oracle Database.

```
Configure-SmOracleDatabase -AppObjectId host-name\STDDB
-DatabaseRunAsName stddb_cred -DatabasePort 1521
```

This example shows how to configure database credentials for Oracle Database.

Example 2: Configure RAC preferred node settings for Oracle Database.

```
Configure-SmOracleDatabase -AppObjectId oracle-rac-cluster\RACDB
-OracleRACPreferredNodes rac-node1.netapp.com,rac-node3.netapp.com,rac-
node2.netapp.com
```

This example shows how to configure RAC preferred node settings for Oracle Database.

Copy-SmPolicy

Copies an existing policy.

Syntax

```
Copy-SmPolicy [-PolicyName] <String> [-NewPolicyName] <String>
```

Detailed Description

Copies an existing policy, its attributes including retention and replication settings, and its scheduler information.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PolicyName	Specifies the policy you want to copy.	true	true (ByPropertyName)	
NewPolicyName	Specifies the new policy name.	true	true (ByPropertyName)	

Examples

Example 1: Creating a copy of a policy

```
Copy-SmPolicy -PolicyName FinancePolicy -NewPolicyName NewFinancePolicy
```

This example syntax creates a copy of the specified policy.

```
ApplySnapvaultUpdate: False
ApplyRetention      : False
RetentionCount      : 0
RetentionDays       : 0
ApplySnapMirrorUpdate : False
SnapVaultLabel      :
MirrorVaultUpdateRetryCount : 7
AppPolicies         : {}
Description          : FinancePolicy
PreScriptPath        :
PreScriptArguments   :
PostScriptPath       :
PostScriptArguments  :
ScriptTimeout        : 60000
DateModified: 8/4/2015 4:20:51 PM
DateCreated  : 8/4/2015 4:20:51 PM
Schedule: SMCoreContracts.SmSchedule
PolicyType   : Backup
PluginPolicyType: SMSQL
Name: NewFinancePolicy
Type:
Id  : 2
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

Example 2: Discovering SnapCenter for Windows plugin resources on a host

```
Get-SmResources -HostName localhost -PluginCode scw -Verbose
```

This example syntax discovers the resources for the SnapCenter for Windows plug-in on the specified host.

Copy-SmRole

Copies an existing role-based access control (RBAC) role.

Syntax

```
Copy-SmRole [-RoleName] <String> [-NewRoleName] <String>
```

Detailed Description

Copies an existing role-based access control (RBAC) role.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
RoleName	Specifies the name of the existing role.	true	true (ByPropertyName)	
NewRoleName	Specifies the name of the new role.	true	true (ByPropertyName)	

Examples

Example 1: Copying and existing role

```
Copy-SmRole -RoleName 'App Backup and Clone Admin' -NewRoleName  
app_backup_clone_admin_copy
```

This example syntax copies the existing role "App Backup and Clone Admin" to a new role called app_backup_clone_admin_copy.

Disable-SmDataCollectionEms

Disables EMS data collection.

Syntax

```
Disable-SmDataCollectionEms
```

Detailed Description

Disables EMS data collection. EMS data collection occurs weekly, by default. EMS data collection gathers information about Server and plug-in hosts, and available plug-ins.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	---------------	----------------	------------------

Examples

Example 1: Disabling EMS data collection

```
Disable-SmDataCollectionEms
```

This example syntax disables EMS data collection.

Enable-SmDataCollectionEms

Enables EMS data collection.

Syntax

```
Enable-SmDataCollectionEms
```

Detailed Description

Enables EMS data collection. EMS data collection occurs weekly, by default. EMS data collection gathers information about Server and plug-in hosts, and available plug-ins.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	---------------	----------------	------------------

Examples

Example 1: Enabling EMS data collection

```
Enable-SmDataCollectionEms
```

This example syntax enables weekly EMS data collection.

Enable-SmRepositoryHAConfig

Enables SnapCenter repository HA configuration.

Syntax

```
Enable-SmRepositoryHAConfig [-SlaveNode] <String>
```

Detailed Description

Enables SnapCenter repository HA configuration.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
SlaveNode	Specifies the IP address of the slave node. This IP must not belong to the master node IP or IP of the machine where this cmdlet is running.	true	true (ByPropertyName)	

Examples

Example 1: Enabling SnapCenter repository HA config

```
Enable-SmRepositoryHAConfig -SlaveNode "slave_node_ip_address"
```

This example syntax enables SnapCenter repository HA config. Slave node IP must not belong to the master node IP or IP of the machine where this cmdlet is running. This cmdlet must be executed on the Master (primary) node.

```
Enable-SmRepositoryHAConfig
```

Are you sure you want to enable MySQL HA Configuration ?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):

```
SnapCenter repository HA configuration is successfully configured.
```

Get-SmAlert

Get details of the alert(s).

Syntax

```
Get-SmAlert [-AlertId] <String> [-Severity] <SmAlertSeverity> [-Status] <SmAlertStatus> [-EntityType] <SmEntityType> [-SearchText] <String>
```

Detailed Description

Get details of the alerts. This information includes the alert name, description, recommendation, severity, status, entity, etc.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
AlertId	Specify the Id of the alert.	false	true (ByPropertyName)	
Severity	Specify the severity of the alert(s) needs to be filtered. ("Informational", "Warning", "Critical")	false	true (ByPropertyName)	
Status	Specify the status of the alert(s) needs to be filtered. ("New", "Resolved")	false	true (ByPropertyName)	
EntityType	Specify the entity type of the alert(s) needs to be filtered. ("SnapCenterServer", "Host", "StorageSystem")	false	true (ByPropertyName)	
SearchText	Specify the Alert Name or Entity Name needs to be filtered.	false	true (ByPropertyName)	

Examples

Example 1: Get alert by Id

```
Get-SmAlert -AlertId 100
```

This example syntax retrieves the information of an alert.

```
Id : 100
CreatedTime: 12/5/2018 2:47:05 AM
ModifiedTime : 12/5/2018 2:47:05 AM
Name : Aggregate assignment check
Status : New
Severity : Warning
Entity : SMCoreContracts.ConfigCheck.SmEntity
Description: Aggr-list field is not set for the storage virtual machine
Recommendation : To rectify this issue, see
https://kb.netapp.com/app/answers/answer\_view/a\_id/1070989/loc/en\_US
JobId : 2345
Source : Server
EntityType : Host
EntityName : mtme.englab.netapp.com
```

Example 2: Get all alerts

```
Get-SmAlert
```

This example syntax retrieves the information about all alerts.

```
Id : 100
CreatedTime: 12/5/2018 2:47:05 AM
ModifiedTime : 12/5/2018 2:47:05 AM
Name : Aggregate assignment check
Status : New
Severity : Warning
Entity : SMCoreContracts.ConfigCheck.SmEntity
Description: Aggr-list field is not set for the storage virtual machine
Recommendation : To rectify this issue, see
https://kb.netapp.com/app/answers/answer\_view/a\_id/1070989/loc/en\_US
JobId : 2345
Source : Server
EntityType : Host
EntityName : mtme.englab.netapp.com
EntityId : 1
Id : 101
CreatedTime: 12/5/2018 2:48:15 AM
ModifiedTime : 12/5/2018 2:48:15 AM
Name : IMT check - OS platform, version and patches for SCSQL Server
Status : New
Severity : Critical
Entity : SMCoreContracts.ConfigCheck.SmEntity
```

```
Description: Unsupported version of SQL server instance is detected for
the host
Recommendation : Please refer to NetApp Interoperability Matrix Tool for
supported versions
JobId   : 3456
Source  : Server
EntityType : Host
EntityName : mtme.englab.netapp.com
EntityId   : 1
Id       : 102
CreatedTime: 12/5/2018 2:57:23 AM
ModifiedTime  : 12/5/2018 2:57:23 AM
Name       : SVM duplicate Data LIF check
Status     : New
Severity   : Warning
Entity     : SMCOREContracts.ConfigCheck.SmEntity
Description: Cluster Storage Virtual Machines have duplicate IP address
Recommendation : You should ensure that ONTAP Cluster storage virtual
machine network interfaces have unique IP addresses assigned to them
JobId   : 3678
Source  : Server
EntityType : SVM
EntityName : mtme-win2k8r2x64-20.gdl.englab.netapp.com
EntityId   : 1
```

Example 3: Get all the alerts based on severity

```
Get-SmAlert -Severity "Critical"
```

This example syntax retrieves all the critical alerts.

```
Id : 101
CreatedTime: 12/5/2018 2:48:15 AM
ModifiedTime : 12/5/2018 2:48:15 AM
Name : IMT check - OS platform, version and patches for SCSQL Server
Status : New
Severity : Critical
Entity : SMCoreContracts.ConfigCheck.SmEntity
Description: Unsupported version of SQL server instance is detected for
the host
Recommendation : Please refer to NetApp Interoperability Matrix Tool for
supported versions
JobId : 3456
Source : Server
EntityType : Host
EntityName : mtme.englab.netapp.com
EntityId : 1
```

Example 4: Get all the alerts based on status

```
Get-SmAlert -Status "New"
```

This example syntax retrieves all the new alerts.

```
Id : 101
CreatedTime: 12/5/2018 2:48:15 AM
ModifiedTime : 12/5/2018 2:48:15 AM
Name : IMT check - OS platform, version and patches for SCSQL Server
Status : New
Severity : Critical
Entity : SMCoreContracts.ConfigCheck.SmEntity
Description: Unsupported version of SQL server instance is detected for
the host
Recommendation : Please refer to NetApp Interoperability Matrix Tool for
supported versions
JobId : 3456
Source : Server
EntityType : Host
EntityName : mtme.englab.netapp.com
EntityId : 1
```

Example 5: Get all the alerts based on entity

```
Get-SmAlert -EntityType "Host"
```

This example syntax retrieves all the Host related alerts.

```
Id : 101
CreatedTime: 12/5/2018 2:48:15 AM
ModifiedTime : 12/5/2018 2:48:15 AM
Name : IMT check - OS platform, version and patches for SCSQL Server
Status : New
Severity : Critical
Entity : SMCoreContracts.ConfigCheck.SmEntity
Description: Unsupported version of SQL server instance is detected for
the host
Recommendation : Please refer to NetApp Interoperability Matrix Tool for
supported versions
JobId : 3456
Source : Server
EntityType : Host
EntityName : mtme.englab.netapp.com
EntityId : 1
```

Example 6: Get all the alerts based on entity name

```
Get-SmAlert -SearchText "mtme.englab"
```

This example syntax retrieves all the alerts whose entity name contains the text 'mtme.englab'.

```
Id : 101
CreatedTime: 12/5/2018 2:48:15 AM
ModifiedTime : 12/5/2018 2:48:15 AM
Name : IMT check - OS platform, version and patches for SCSQL Server
Status : New
Severity : Critical
Entity : SMCoreContracts.ConfigCheck.SmEntity
Description: Unsupported version of SQL server instance is detected for
the host
Recommendation : Please refer to NetApp Interoperability Matrix Tool for
supported versions
JobId : 3456
Source : Server
EntityType : Host
EntityName : mtme.englab.netapp.com
EntityId : 1
```

Get-SmAssignedGroups

Gets a list off all groups assigned to a role.

Syntax

```
Get-SmAssignedGroups [-RoleName] <String>
```

Detailed Description

Gets a list off all groups assigned to a user.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
RoleName	Specifies the name of the role for which you want to find the assigned groups.	true	true (ByPropertyName)	

Examples

Example 1: Getting groups assigned to a particular role

```
Get-SmAssignedGroups -RoleName SnapcenterAdmin
```

The example syntax gets the groups assigned to the SnapCenterAdmin role.

```
Token      :
TokenHashed : {}
TokenTime   : 8/3/2015 5:07:50 PM
FullName:
Author      :
Domain      : sddev
Description :
TokenNeverExpires : False
IsAdmin     : False
TenantAdmin :
IsNewUser   :
UserGroupObjectType : Group
RoleName:
RoleId      : 0
Name: administrators
Type:
Id          : 3
Host:
UserName:
Passphrase  :
Deleted     : False
Auth: SMCoreContracts.SmAuth
IsClone     : False
CloneLevel  : 0
```

Get-SmAssignedRoles

Gets the roles assigned to a specified user or Active Directory group.

Syntax

```
Get-SmAssignedRoles [-UserName] <String> [-UserGroupObjectType]
<SmUserGroupObjectType>
```

Detailed Description

Gets the roles assigned to a specified user or Active Directory group.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
UserName	Specifies the domain\username for the user about which you want to get role information.	true	true (ByPropertyName)	
UserGroupObjectType	Specifies that the domain\username for which you are requesting role information is a group.	false	true (ByPropertyName)	

Examples

Example 1: Getting roles for a particular user

```
Get-SmAssignedRoles -UserName sddev\administrator
```

This example syntax gets the roles assigned to a user.

```
Description : Overall administrator of SnapCenter system
Name: SnapCenterAdmin
Type: Administrator
Id : 1
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

Example 2: Getting roles assigned to a group

```
Get-SmAssignedRoles -UserName sddev\b-grp -UserGroupObjectType Group
```

```
Description :
Name: role1
Type:
Id   : 20
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts   : {}
```

Get-SmAssignedUsers

Gets the users assigned to a specified role.

Syntax

```
Get-SmAssignedUsers [-RoleName] <String>
```

Detailed Description

Gets the users assigned to a specified role.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
RoleName	Specifies the role name.	true	true (ByPropertyName)	

Examples

Example 1: Gets users associated with a role

```
Get-SmAssignedUsers -RoleName SnapCenterAdmin
```

This example syntax gets the users associated with a role.

```
Token      :
TokenHashed : {}
```

TokenTime : 8/3/2015 5:30:59 PM
FullName: sddev\administrator
Author :
Domain : sddev
Description :
TokenNeverExpires : False
IsAdmin : False
TenantAdmin :
IsNewUser :
UserGroupObjectType : User
RoleName:
RoleId : 0
Name: administrator
Type:
Id : 1
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Token :
TokenHashed : {}
TokenTime : 8/3/2015 5:30:59 PM
FullName: sddev\snapdrive
Author :
Domain : sddev
Description :
TokenNeverExpires : False
IsAdmin : False
TenantAdmin :
IsNewUser :
UserGroupObjectType : User
RoleName:
RoleId : 0
Name: snapdrive
Type:
Id : 2
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0

Get-SmAuditSettings

Retrieves Audit configurations and Syslog configurations

Syntax

```
Get-SmAuditSettings
```

Detailed Description

Retrieves below configurations: Audit log related configuration - Maximum File Size, Maximum files to retain, Audit Log file location, Audit Log Checksum file location, Disk Space Limit in Percentage, to raise alert after limit is reached, Option to Enable Audit Integrity Check Schedule, Syslog server related configuration - Option to Enable Syslog Server and update Syslog configuration, Syslog Server Host, Syslog Server Port, Syslog Protocol, Syslog Format

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	------------	----------------	---------------

Examples

Example 1: Getting audit log and syslog server settings

```
Get-SmAuditSettings
```

This example gets audit log and Syslog server settings.

```
MaxFileSize : 50
MaxSizeRollBackups : 10
UniversalTime : False
AuditLogDirectory : C:\Program Files\NetApp\SnapCenter WebApp\audit
AuditChecksumLogDirectory : C:\Program Files\NetApp\SnapCenter
WebApp\auditChecksum
DiskSpaceLimitPercentage : 80
EnableAuditIntegrityCheckSchedule : False
EnableSyslogServer : True
SyslogServerHost : 10.229.39.107
SyslogServerPort : 1468
SyslogProtocol : TCP
SyslogFormat : Rfc5424
```

Example 2: Getting audit log settings and syslog server is disabled

```
Get-SmAuditSettings
```

This example gets audit log settings and Syslog server is disabled.

```
MaxFileSize : 50
MaxSizeRollBackups : 10
UniversalTime : False
AuditLogDirectory : C:\Program Files\NetApp\SnapCenter WebApp\audit
AuditChecksumLogDirectory : C:\Program Files\NetApp\SnapCenter
WebApp\auditChecksum
DiskSpaceLimitPercentage : 80
EnableAuditIntegrityCheckSchedule : False
EnableSyslogServer : False
```

Get-SmAuditSettings

Retrieves Audit configurations and Syslog configurations

Syntax

```
Get-SmAuditSettings
```

Detailed Description

Retrieves below configurations: Audit log related configuration -Maximum File SizeMaximum files to retainAudit Log file locationAudit Log Checksum file locationDisk Space Limit in Percentage, to raise alter after limit is reachedOption to Enable Audit Integrity Check ScheduleSyslog server related configuration -Option to Enable Syslog Server and update Syslog configurationSyslog Server HostSyslog Server PortSyslog ProtocolSyslog Format

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	------------	----------------	---------------

Examples

Example 1: Getting audit log and syslog server settings

```
Get-SmAuditSettings
```

This example gets audit log and Syslog server settings.

```
MaxFileSize : 50
MaxSizeRollBackups : 10
UniversalTime : False
AuditLogDirectory : C:\Program Files\NetApp\SnapCenter WebApp\audit
AuditChecksumLogDirectory : C:\Program Files\NetApp\SnapCenter
WebApp\auditChecksum
DiskSpaceLimitPercentage : 80
EnableAuditIntegrityCheckSchedule : False
EnableSyslogServer : True
SyslogServerHost : 10.229.39.107
SyslogServerPort : 1468
SyslogProtocol : TCP
SyslogFormat : Rfc5424
```

Example 2: Getting audit log settings and syslog server is disabled

```
Get-SmAuditSettings
```

This example gets audit log settings and Syslog server is disabled.

```
MaxFileSize : 50
MaxSizeRollBackups : 10
UniversalTime : False
AuditLogDirectory : C:\Program Files\NetApp\SnapCenter WebApp\audit
AuditChecksumLogDirectory : C:\Program Files\NetApp\SnapCenter
WebApp\auditChecksum
DiskSpaceLimitPercentage : 80
EnableAuditIntegrityCheckSchedule : False
EnableSyslogServer : False
```

Get-SmBackup

Gets information about one or more backups.

Syntax

```
Get-SmBackup [-BackupName] <String> [-BackupId] <String> [-
AppObjectName] <String> [-AppObjectId] <String> [-Secondary] <> [-
CloudProtected] <> [-ObjectStorage ] <> [-Details] <>
```

Detailed Description

Gets information about one or more backups. You can specify whether to include information about secondary backups.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
BackupName	Specifies the name of the backup about which you want to retrieve information.	false	true (ByPropertyName)	
BackupId	Specifies the ID of the backup about which you want to get information.	false	true (ByPropertyName)	
AppObjectName	Specifies the name of the application object.	false	true (ByPropertyName)	
AppObjectId	Specifies the ID of the application object.	false	true (ByPropertyName)	
Secondary	Specifies whether to list only the secondary backups.	false	true (ByPropertyName)	
CloudProtected	Specifies whether to list only the cloud backups.	false	true (ByPropertyName)	
Details		false	true (ByPropertyName)	

Examples

Example 1: Getting information about all backups

```
Get-SmBackup
```

This example syntax gets information about all available backups.

```
BackupId BackupName BackupTime BackupType
```

```
-----  
1 Payroll Dataset_vise-f6_08... 8/4/2015 11:02:32 AM Full Backup  
2 Payroll Dataset_vise-f6_08... 8/4/2015 11:23:17 AM
```

Example 2: Getting information about secondary backups

```
Get-SmBackup -Secondary
```

This example syntax gets information about only secondary backups.

```
BackupId BackupName BackupTime BackupType
-----
1 Payroll Dataset_vise-f6_08... 8/4/2015 11:02:32 AM
```

Example 3: Getting a backup information for a specific backup name

```
Get-SmBackup -BackupName "Payroll Dataset_vise-f6_08-04-
2015_11.02.10.3432"
```

This example syntax gets backup information for the specified backup name.

```
BackupId BackupName BackupTime BackupType
-----
1 Payroll Dataset_vise-f6_08... 8/4/2015 11:02:32 AM
```

Example 4: Getting backup information using the backup ID

```
Get-SmBackup -BackupId 1
```

This example syntax gets backup information using the specified backup ID.

```
BackupId BackupName BackupTime BackupType
-----
1 Payroll Dataset_vise-f6_08... 8/4/2015 11:02:32 AM
```

Example 5: Getting backup information using the resource ID

```
Get-SmBackup -AppObjectId vise-f6\PayrollDatabase
```

This example syntax gets backup information using the specified resource ID.

```
BackupId BackupName BackupTime BackupType
-----
1 Payroll Dataset_vise-f6_08... 8/4/2015 11:02:32 AM Full Backup
2 Payroll Dataset_vise-f6_08... 8/4/2015 11:23:17 AM
```

Get-SmBackupReport

Gets reports about backup operations based on the options you specify.

Syntax

```
Get-SmBackupReport [-FromDateTime] <DateTime> [-ToDateTime] <DateTime>
[-Backup] <String> [-Status] <String> [-Policy] <String> [-
ResourceGroup] <String> [-Resource] <String> [-HostName] <String> [-
Plugin] <PluginCode> [-BackupId] <Int64> [-JobId] <Int64>
```

Detailed Description

Gets reports about backup operations based on the options you specify. You can specify whether you want to get details about a specific backup or a summary of all backups performed using a SnapCenter instance. For any integer value provided for date, value is taken as 1/1/0001 12:00 AM.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
FromDateTime	Specifies that you want to get backup operations reports for backups run between a specified day and time. This option provides the start date and time. You can specify the date and time using any date and time format string. For example, "2/2/2015 8:52PM". If the cmdlet is run from the remote computer, the output will be shown based on the SnapCenter Server time zone.	false	false	
ToDateTime	Specifies that you want to get backup operations reports for backups run between a specified day and time. This option provides the end date and time. You can specify the date and time using any date and time format string. For example, "2/2/2015 8:52PM". If the cmdlet is run from the remote computer, the output will be shown based on the SnapCenter Server time zone.	false	false	
Backup	Specifies that you want to get a detailed backup report for the given backup.	false	true (ByPropertyName)	
Status	Specifies that you want information about backup jobs with a specified status. Valid values are: completed, failed, warning, and canceled.	false	true (ByPropertyName)	
Policy	Specifies that you want reports about backup jobs associated with a specified policy.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
ResourceGroup		false	true (ByPropertyName)	
Resource	Specifies the resource for which you want backup reports.	false	true (ByPropertyName)	
HostName	Specifies the name of the host on which the backup was taken.	false	true (ByPropertyName)	
BackupId	ID of the backup for which to get a report.	true	true (ByPropertyName)	
JobId	ID of the backup job for which to get a report.	true	true (ByPropertyName)	
Plugin	Specify the plug-in code to generate the report. For custom plug-ins, specify the custom plug-in name for example, hana, mysql.	false	true (ByPropertyName)	

Examples

Example 1: Getting a backup report for a date range

```
Get-SmBackupReport -FromDate "1/29/2015" -ToDate "2/3/2015"
```

This example syntax gets a report on backups from January 29th 2015 to February 3rd, 2015.

```
SmBackupId    : 113
SmJobId       : 2032
StartDateTime : 2/2/2015 6:57:03 AM
EndDateTime   : 2/2/2015 6:57:11 AM
Duration      : 00:00:07.3060000
CreatedDateTime : 2/2/2015 6:57:23 AM
Status        : Completed
ProtectionGroupName : Clone
SmProtectionGroupId : 34
PolicyName     : Vault
SmPolicyId     : 18
BackupName     : Clone_SCSPR0019366001_02-02-2015_06.57.08
VerificationStatus : NotVerified
PluginCode     : SCC
PluginName     : hana
PluginDisplayName: SAP HANA
JobHost       : R60618C4A79V1
SmBackupId    : 114
SmJobId       : 2183
StartDateTime : 2/2/2015 1:02:41 PM
EndDateTime   : 2/2/2015 1:02:38 PM
Duration      : -00:00:03.2300000
CreatedDateTime : 2/2/2015 1:02:53 PM
Status        : Completed
ProtectionGroupName : Clone
SmProtectionGroupId : 34
PolicyName     : Vault
SmPolicyId     : 18
BackupName     : Clone_SCSPR0019366001_02-02-2015_13.02.45
VerificationStatus : NotVerified
PluginCode     : SCO
PluginName     : Oracle Database
PluginDisplayName: Oracle Database
JobHost       : R60618C4A79V1
```

Example 2: Getting a backup report for a dataset and status type

```
Get-SmBackupReport -Status completed -Dataset Secondary
```

This example syntax gets a report on all backups for dataset "Secondary" that have the "Completed" status.

```

SmBackupId      : 24
SmJobId         : 310
StartDateTime   : 1/12/2015 8:50:49 AM
EndDateTime     : 1/12/2015 8:50:48 AM
Duration        : -00:00:00.6900000
CreatedDateTime : 1/12/2015 8:51:05 AM
Status          : Completed
ProtectionGroupName : Secondary
SmProtectionGroupId : 5
PolicyName      : Vault
SmPolicyId      : 18
BackupName      : Secondary_SCSPR0019366001_01-12-2015_08.50.49
VerificationStatus : NotVerified
PluginCode      : SCC
PluginName      : hana
PluginDisplayName: SAP HANA
JobHost         : R60618C4A79V1
SmBackupId      : 52
SmJobId         : 585
StartDateTime   : 1/15/2015 6:49:07 AM
EndDateTime     : 1/15/2015 6:49:21 AM
Duration        : 00:00:13.8370000
CreatedDateTime : 1/15/2015 6:49:18 AM
Status          : Completed
ProtectionGroupName : Secondary
SmProtectionGroupId : 5
PolicyName      : Vault
SmPolicyId      : 18
BackupName      : Secondary_SCSPR0019366001_01-15-2015_06.49.08
VerificationStatus : NotVerified
PluginCode      : SCO
PluginName      : Oracle Database
PluginDisplayName: Oracle Database
JobHost         : R60618C4A79V1

```

Example 3: Getting a detailed backup report

```

Get-SmBackupReport -BackupName Secondary_SCSPR0019366001_01-15-
2015_06.49.08

```

Get a detailed backup for the backup "Secondary_SCSPR0019366001_01-15-2015_06.49.08".

```

BackedUpObjects : {TestDB1, TestDB2, TestDB3, TestDB4...}
FailedObjects: {}
BackupType      : Full Backup
IsScheduled     : False
SmBackupId      : 52
SmJobId         : 585
StartDateTime   : 1/15/2015 6:49:07 AM
EndDateTime     : 1/15/2015 6:49:21 AM
Duration        : 00:00:13.8370000
CreatedDateTime : 1/15/2015 6:49:18 AM
Status          : Completed
ProtectionGroupName : Secondary
SmProtectionGroupId : 5
PolicyName      : Vault
SmPolicyId      : 18
BackupName      : Secondary_SCSPR0019366001_01-15-2015_06.49.08
VerificationStatus : NotVerified
PluginCode      : SCO
PluginName      : Oracle Database
PluginDisplayName: Oracle Database
JobHost         : R60618C4A79V1

```

Get-SmBackupsForPointInTimeRecovery

Get all the backups required to be mounted or cataloged for point in time recovery operation.

Syntax

```

Get-SmBackupsForPointInTimeRecovery [-AppObjectId] <appObject Id> [-
PluginCode] <plugincode> [-BackupId] <String> [-BackupName] <String>
[-OracleUntilScn] <Int64> [-OracleUntilTime] <'yyyy-MM-dd HH:mi:ss'>
[-Archive] <Hashtable[]> [-DisplayInGroups] <> [-OnlyBackupsForMount]
<> [-OnlyBackupsForCatalog] <>

```

Detailed Description

The backups of a tablespace, pluggable database, or tablespace in pluggable database should be cataloged and mounted to perform point in time recovery. This command lists the backups required to be mounted or cataloged based on scn or date and time.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
AppObjectld	Specifies the application object identifier about which you want to get information. Specify the application object identifier format as 'host\database' for Oracle standalone database or 'clustername\database' for Oracle RAC database.	true	false	
PluginCode	Specifies the plugincode.	true	false	
Backupld	Specifies the ID of the backup about which you want to get information.	false	false	
BackupName	Specifies the name of the backup about which you want to retrieve information.	false	true (ByPropertyName)	
OracleUntilScn	Specifies the SCN till which you want to get backups to recover.	false	true (ByPropertyName)	
OracleUntilTime	Specifies the date and time till which you want to get backups to recover. You must specify the date and time in the 'yyyy-MM-dd HH:mm:ss' format. For example: '2020-06-29 20:30:00'	false	true (ByPropertyName)	
Archive	Specifies the secondary (SnapVault or SnapMirror) storage location details (destination volume) for each unique primary storage (source volume).For example: -Archive @{Primary="oracle_vs1:db1_data_vol";Secondary="my_vs1:my_vol_iscsi_SECONDARY"},@{Primary="oracle_vs2:db1_log_vol";Secondary="oracle_vs2_mirror:db1_data_log_mirror"}	false	true (ByPropertyName)	
DisplayInGroups	Set this flag to get the result in groups of mounted or not mounted and cataloged or non cataloged backups.	false	true (ByPropertyName)	
OnlyBackupsForMount	Set this flag to get the result in groups of only mounted or not-mounted backups.	false	true (ByPropertyName)	
OnlyBackupsForCatalog	Set this flag to get the result in groups of only cataloged or non-cataloged backups.	false	true (ByPropertyName)	

Examples

Example 1: Getting backups for Point In Time Recovery Until SCN

```
Get-SmBackupsForPointInTimeRecovery -AppObjectId "linux7-6.gdl.englab.netapp.com\lvm12" -BackupId 5 -PluginCode SCO -OracleUntilScn 2693464
```

This example syntax gets backups for Point In Time Recovery Until SCN 2693464.

```
BackupId : 5
BackupName : linux7-6_gdl_englab_netapp_com_lvm12_linux7-6_08-05-2020_05.21.11.0188_0
BackupType : Oracle Database Data Backup
MountStatus :
CatalogingStatus : NotCataloged
```

Example 2: Getting backups for Point In Time Recovery Until Time

```
Get-SmBackupsForPointInTimeRecovery -AppObjectId "linux7-6.gdl.englab.netapp.com\lvm12" -PluginCode SCO -BackupId 5 -OracleUntilTime "2020-08-05 05:24:40" -OnlyBackupsForCatalog
```

This example syntax gets backups for Point In Time Recovery Until time "2020-08-05 05:24:40"

```

BackupId : 5
BackupName : linux7-6_gdl_englab_netapp_com_lvm12_linux7-6_08-05-
2020_05.21.11.0188_0
BackupType : Oracle Database Data Backup
MountStatus :
CatalogingStatus : NotCataloged
BackupId : 7
BackupName : linux7-6_gdl_englab_netapp_com_lvm12_linux7-6_08-05-
2020_05.21.11.0188_1
BackupType : Oracle Database Log Backup
MountStatus :
CatalogingStatus : NotCataloged
BackupId : 9
BackupName : linux7-6_gdl_englab_netapp_com_lvm12_linux7-6_08-05-
2020_05.21.11.7922_0
BackupType : Oracle Database Data Backup
MountStatus :
CatalogingStatus : NotCataloged
BackupId : 11
BackupName : linux7-6_gdl_englab_netapp_com_lvm12_linux7-6_08-05-
2020_05.21.11.7922_1
BackupType : Oracle Database Log Backup
MountStatus :
CatalogingStatus : NotCataloged

```

Example 3: Getting backups for PITR using secondary locators and Until SCN

```

Get-SmBackupsForPointInTimeRecovery -PluginCode SCO -AppObjectId "linux7-
6.gdl.englab.netapp.com\lvm12" -BackupId 5 -Archive @{Primary="svm1-
scc2554-263-
264:R706221F756V1_NFS_DB_DB1_DATA";Secondary="hnkn_sec:R706221F756V1_NFS_D
B_DB1_DATA_1_dst"},@{Primary="svm1-scc2554-263-
264:R706221F756V1_NFS_DB_DB1_REDO";Secondary="hnkn_sec:R706221F756V1_NFS_D
B_DB1_REDO_dst"},@{Primary="svm1-scc2554-263-
264:R706221F756V1_NFS_DB_DB1_LOG";Secondary="hnkn_sec:R706221F756V1_NFS_DB
_DB1_LOG_1_dst"} -OracleUntilScn 2188355

```

This example syntax gets backups for Point In Time Recovery using secondary locators and Until SCN 2693464.

```
BackupId : 5
BackupName : linux7-6_gdl_englab_netapp_com_lvm12_linux7-6_08-05-2020_05.21.11.0188_0
BackupType : Oracle Database Data Backup
MountStatus :
CatalogingStatus : NotCataloged
```

Get-SmCertificateSettings

Displays the certificate status for the SnapCenter Server or a SnapCenter plug-in host.

Syntax

```
Get-SmCertificateSettings [-Server] <> [-Host] <> [-HostName]
<String>
```

Detailed Description

Displays the certificate status for the SnapCenter Server or a SnapCenter plug-in host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Server	Displays the certificate status for the server on which SnapCenter is installed.	true	false	
Host	Displays the certificate status for the Snapcenter host.	true	false	
HostName	Specifies the name of the host only when the Host parameter is specified.	true	false	

Examples

Example 1: Displays certificate settings for server

```
Get-SmCertificateSettings -Server
```

This example syntax displays certificate settings for server.

True

Example 2: Displays certificate settings for Host

```
Get-SmCertificateSettings -Host -HostName  
R71104B320CV1.mva.gdl.englab.netapp.com
```

This example syntax displays certificate settings for host.

```
HostName      : R71104B320CV1.mva.gdl.englab.netapp.com  
CAEnabled    : True  
CAStatus     : Connection is broken.  
CAIssues     : Host: R71104B320CV1.mva.gdl.englab.netapp.com.  
Reason: Trusted chain certificates are missing for the  
              certificate  
'R71104B320CV1.mva.gdl.englab.netapp.com'. Check if intermediate and root  
CA certificates  
              exist in the trusted root store.  
  
Name         :  
Type         :  
Id           :  
Host         :  
UserName     :  
Passphrase   :  
Deleted      : False  
Auth         : SMCoreContracts.SmAuth  
IsClone      : False  
CloneLevel   : 0  
Hosts        : {}  
StorageName  :  
ResourceGroupNames :  
PolicyNames  :  
Key          : 0  
NsmObjectID  : 0  
SizeOfSmObject : SMCoreContracts.SmObjectSize
```

Get-SmClone

Gets information about existing clones.

Syntax

```
Get-SmClone [-CloneName] <String> [-CloneId] <String> [-Dataset]
<String> [-BackupName] <String> [-BackupId] <String> [-AppObjectName]
<String> [-AppPluginCode] <PluginCode> [-ListStorageFootprint]
<SwitchParameter>
```

Detailed Description

Gets information about existing clones. You can also search existing clones based on clone name, clone ID, application object, and backup ID.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
CloneName	Specifies that you want information about a single clone.	false	true (ByPropertyName)	
CloneId	Provides a clone ID for the clone about which you want information. You can get the clone ID by running Get-SmClone without any input, and then use the clone ID to retrieve more detailed information about the specified clone.	false	true (ByPropertyName)	
Dataset	Retrieves information based on dataset name.	false	true (ByPropertyName)	
BackupName	Retrieves information based on backup name.	false	true (ByPropertyName)	
BackupId	Retrieves information based on a specified backup ID. Get the backup ID by running Get-SmBackup without parameters.	false	true (ByPropertyName)	
AppObjectName	Retrieves information based on database name.	false	true (ByPropertyName)	
AppPluginCode	Specifies the application plug-in type of the resource. Possible values are SCSQL and SCO.	false	false	
ListStorageFootprint	List the storage footprint information such as storage resource name, type, and junction path in case of volume. This parameter is applicable to SCC plug-in.	false	false	

Examples

Example 1: Retrieving information about all clones

```
Get-SmClone
```

This example syntax retrieves information about all clones.

```
CloneName   : cds__clone__06-18-2015_13.51.03
CloneStartTime : 6/18/2015 1:50:57 PM
CloneEndTime   : 6/18/2015 1:51:03 PM
Databases     : {SourceDB = test,CloneDB = testabcdefg}
CloneId: 4
CloneName   : payrollclone_dataset__clone__08-05-2015_14.41.11
CloneStartTime : 8/5/2015 2:40:41 PM
CloneEndTime   : 8/5/2015 2:41:11 PM
Databases     : {SourceDB = payroll,CloneDB = payroll__clone}
```

Example 2: Retrieving information for a clone dataset

```
Get-SmClone -Dataset payrollclone_dataset
```

This example syntax retrieves information for the specified clone dataset.

```
CloneId: 4
CloneName   : payrollclone_dataset__clone__08-05-2015_14.41.11
CloneStartTime : 8/5/2015 2:40:41 PM
CloneEndTime   : 8/5/2015 2:41:11 PM
Databases     : {SourceDB = payroll,CloneDB = payroll__clone}
```

Example 3: Retrieving clone information for a backup

```
Get-SmClone -BackupName cds_vise-f4_06-18-2015_13.50.52.1978
```

This example syntax retrieves the clone information for the specified backup.

```
CloneId: 3
CloneName  : cds__clone__06-18-2015_13.51.03
CloneStartTime : 6/18/2015 1:50:57 PM
CloneEndTime   : 6/18/2015 1:51:03 PM
Databases    : {SourceDB = test,CloneDB = testabcdefg}
```

Example 4: Getting clone information for a database

```
Get-SmClone -AppObjectName vise-f3\sqlexpress\payroll
```

This example syntax retrieves information for the specified database.

```
CloneId: 4
CloneName  : payrollclone_dataset__clone__08-05-2015_14.41.11
CloneStartTime : 8/5/2015 2:40:41 PM
CloneEndTime   : 8/5/2015 2:41:11 PM
Databases    : {SourceDB = payroll,CloneDB = payroll__clone}
```

Example 5: Retrieving clone information using a backup ID

```
Get-SmClone -BackupId 7
```

This example syntax retrieves clone information using the specified backup ID.

```
CloneId: 4
CloneName  : payrollclone_dataset__clone__08-05-2015_14.41.11
CloneStartTime : 8/5/2015 2:40:41 PM
CloneEndTime   : 8/5/2015 2:41:11 PM
Databases    : {SourceDB = payroll,CloneDB = payroll__clone}
```

Example 6: Retrieving clone information along with storage footprint for HANA plug-in resources

```
Get-SmClone -ListStorageFootprint
```

This example syntax retrieves clone information along with storage footprint for HANA plug-in resources.

```

CloneId   : 38
CloneName: scspr0965644001.gdl.englab.netapp.com_hana_MDC_H14
CloneStartTime   : 11/15/2019 4:15:41 AM
CloneEndTime    : 11/15/2019 4:19:17 AM
Resources: Source = H14, Clone = H14
StorageFootPrint : StorageResourceType : SDStorageDir, StorageResource :
buck.gdl.englab.netapp.com:/vol/NFS_H14_MDCMT_DATA_10_234_131_229111519000
1059572, JunctionPath : /Scb461b683-f1cb-4350-a1a1-0f0d29b62d3f
CloneId   : 39
CloneName: scspr0965644001.gdl.englab.netapp.com_hana_H14
CloneStartTime   : 11/15/2019 5:39:06 AM
CloneEndTime    : 11/15/2019 5:40:06 AM
Resources: Source = H14, Clone = H14
StorageFootPrint : StorageResourceType : SDStorageLunPath, StorageResource
:
buck:/vol/SAN_H14_SC_DATA_10_234_176_1201115190121551593/SAN_H14_SC_DATA_1
0_234_176_120

```

Get-SmCloneJob

Gets information about existing clone jobs.

Syntax

```

Get-SmCloneJob [-PluginCode] <PluginCode> [-ResourceGroupName] <String>
[-Resource] <Hashtable[]>

```

Detailed Description

Gets and displays information about existing clone jobs based on the plug-in code and the resource group.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PluginCode		true	true (ByPropertyName)	
ResourceGroupName		false	false	
Resource		false	false	

Examples

- Example 1: Getting information about the existing clone jobs running at the resource group level. -

```
Get-SmCloneJob -ResourceGroupName RG1 -PluginCode SCSQL
```

This example syntax retrieves information about the existing clone jobs running at the resource group level.

CloneJobName	ResourceGroupName	ResourceName
CLMJob	RG1	

- Example 2: Getting information about the existing clone jobs running at the resource level. -

```
Get-SmCloneJob -Resource @{"Host"="R708202074BV1.hnk2.com"; "Type"="SQL Database"; "Names"="R708202074BV1\SQL2019\MDML_DB1"} -PluginCode SCSQL
```

This example syntax gets information about the existing clone jobs running at the resource level.

CloneJobName	ResourceGroupName	ResourceName
cl2	R708202074BV1\SQL2019\MDML_DB1	

Get-SmCloneReport

Get reports about clone operations based on the options you specify.

Syntax

```
Get-SmCloneReport [-FromDateTime] <DateTime> [-ToDateTime] <DateTime> [-ResourceGroup] <String> [-Resource] <String> [-Status] <String> [-HostName] <String> [-Plugin] <PluginCode> [-JobId] <Int64>
```

Detailed Description

Get reports about clone operations based on the options you specify. For any integer value provided for date, value is taken as 1/1/0001 12:00 AM.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
FromDateTime	Specifies that you want to get clone operations reports for clones run between a specified day and time. This option provides the start date and time. You can specify the date and time using the local date and time format string. For example, "2/5/20158:17AM". If the cmdlet is run from the remote computer, the output will be shown based on the SnapCenter Server time zone.	false	false	
ToDateTime	Specifies that you want to get clone operations reports for clones run between a specified day and time. This option provides the end date and time. You can specify the date and time using the local date and time format string. For example "2/5/20159:56AM". If the cmdlet is run from the remote computer, the output will be shown based on the SnapCenter Server time zone.	false	false	
ResourceGroup		false	false	
Resource	Specifies the resource for which you want clone reports.	false	false	
Status	Specifies that you want information about clone jobs with the specified status. Valid values are: completed, failed, warning, and canceled.	false	false	
HostName	Specifies the name of the host on which the clone resides.	false	false	
Plugin	Specify the plug-in code to generate the report. For custom plug-ins, specify the custom plug-in name for example, hana, mysql.	false	false	
JobId	ID of the clone job for which to get a report.	true	false	

Examples

Example 1: Getting a clone report for a date range

```
Get-SmCloneReport -FromDate "7/31/2015" -HostName  
SCSPR0054212005.mycompany.com
```

This command syntax gets a report for all clones after July 31st, 2015 on the given host.

```
SmCloneId      : 1  
SmJobId        : 186  
StartDateTime  : 8/3/2015 2:43:02 PM  
EndDateTime    : 8/3/2015 2:44:08 PM  
Duration       : 00:01:06.6760000  
Status        : Completed  
ProtectionGroupName : Draper  
SmProtectionGroupId : 4  
PolicyName     : OnDemand_Clone  
SmPolicyId     : 4  
BackupPolicyName : OnDemand_Full_Log  
SmBackupPolicyId : 1  
CloneHostName  : SCSPR0054212005.mycompany.com  
CloneHostId    : 4  
CloneName      : Draper__clone__08-03-2015_14.43.53  
SourceResources : {Don, Betty, Bobby, Sally}  
ClonedResources : {Don_DRAPER, Betty_DRAPER, Bobby_DRAPER, Sally_DRAPER}  
SmJobError     :  
PluginCode     : SCO  
PluginName     : Oracle Database  
PluginDisplayName : Oracle Database
```

Example 2: Getting a clone report for a clone job

```
Get-SmCloneReport -JobId 186
```

This command syntax gets a clone report for the given job ID.

```

SmCloneId      : 1
SmJobId        : 186
StartDateTime   : 8/3/2015 2:43:02 PM
EndDateTime    : 8/3/2015 2:44:08 PM
Duration: 00:01:06.6760000
Status         : Completed
ProtectionGroupName : Draper
SmProtectionGroupId : 4
PolicyName     : OnDemand_Clone
SmPolicyId     : 4
BackupPolicyName: OnDemand_Full_Log
SmBackupPolicyId: 1
CloneHostName  : SCSPR0054212005.mycompany.com
CloneHostId    : 4
CloneName      : Draper__clone__08-03-2015_14.43.53
SourceResources : {Don, Betty, Bobby, Sally}
ClonedResources : {Don_DRAPER, Betty_DRAPER, Bobby_DRAPER, Sally_DRAPER}
SmJobError     :
PluginCode     : SCO
PluginName     : Oracle Database
PluginDisplayName : Oracle Database

```

Get-SmCompatibilityFile

Obtains the latest version of the compatibility file from the NetApp Support Site.

Syntax

```
Get-SmCompatibilityFile [-Auth] <String>
```

Detailed Description

Obtains the latest version of the compatibility file from the NetApp Support Site. The compatibility file contains information about the latest supported SnapCenter and plug-in versions. SnapCenter uses this information to identify when component upgrades are available.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Auth	Specifies the authorization token. This is used for executing this cmdlet in scheduled jobs.	false	false	

Examples

Example 1: Gets the latest compatibility file

```
Get-SmCompatibilityFile
```

This example syntax retrieves the latest compatibility file from the NetApp Support Site, and displays the version of the compatibility file now deployed on your system.

Compatibility file version: 1.0.8

Get-SmConfigSettings

Displays the configuration settings for the SnapCenter Server host or a SnapCenter plug-in host.

Syntax

```
Get-SmConfigSettings [-Server] <> [-Key] <String> [-Agent] <> [-  
HostName] <String> [-Key] <String> [-Plugin] <> [-HostName]  
<String> [-PluginCode] <PluginCode> [-Key] <String>
```

Detailed Description

Displays the configuration settings for the SnapCenter Server host or a SnapCenter plug-in host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Server	Displays the configuration values for the server on which SnapCenter is installed.	true	false	
Key	Specifies the configuration key information you want to display. You can specify a specific key name or specify All to display all configuration information. You can specify multiple keys in to double quotation with Comma (like : "RESTTimeout,MaxVerificationJobPerServer").	true	false	
Agent	Displays the configuration values for the SMCORE agent.	true	false	

Name	Description	Required ?	Pipeline Input	Default Value
HostName	Specifies the name or IP address of the host, only when the Agent or Plugin parameters are specified.	true	false	
Plugin	Displays the configuration information of the plug-in host.	true	false	
PluginCode	Specifies which plug-in configuration you want to display. Valid values are SCSQL and SCO.	true	false	

Examples

Example 1: Getting configuration settings on a custom plugin host

```
Get-SmConfigSettings -Agent -HostName SNAPCENTER113.sscore.test.com -Key all
```

This example syntax gets all configuration settings on custom plug-in host.

```
Key: PLUGIN_OPERATION_TIMEOUT_IN_MSEC   Value: 3600000   Details: Plug-in
API operation Timeout
Key: SERVER_API_TIMEOUT_IN_SEC   Value: 180   Details: Web Service API
Timeout
Key: ALLOWED_CMDS   Value: *;   Details: Allowed Host OS Commands
```

Example 2: Getting configuration value for a specific custom plugin configuration parameter

```
Get-SmConfigSettings -Agent -HostName SNAPCENTER113.sscore.test.com -Key
ALLOWED_CMDS
```

This example syntax gets the configuration parameter value for the key ALLOWED_CMDS setting on the custom plug-in host.

```
Key: ALLOWED_CMDS Value: mount *; unmount *; Details: Allowed Host OS Commands
PS C:\Users\administrator.SCCORE>
```

Example 3: Getting a single configuration value for the SnapCenter Server

```
Get-SmConfigSettings -Server -Key WindowsRemoteInstallProcessTimeout
```

This example syntax displays the configuration value for a single SnapCenter Server key.

Key: WindowsRemoteInstallProcessTimeout Value: 900 Details: Windows remote install/uninstall process wait time (in seconds).

Example 4: Getting a more than one configuration values for the SnapCenter Server

```
Get-SmConfigSettings -Server -Key  
"RESTTimeout,MaxVerificationJobPerServer"
```

This example syntax displays the configuration value for a single SnapCenter Server key.

```
Key: RESTTimeoutValue: 10800000 Details: REST Timeout for SnapManager  
proxy (in milliseconds).  
Key: MaxVerificationJobPerServerValue: 20 Details: Maximum verification  
job that can be run per server.
```

Example 5: Getting all configuration settings on a plugin host including custom port

```
Get-SmConfigSettings -Agent 10.236.172.64 -Key all
```

This example syntax displays all the configuration settings for a plug-in host, including the custom SMcore port.

```
Key: SMSServerURL Value: https://WINDOWS-D38M60U.englab.netapp.com:8146  
Details: SMS server url.  
Key: SMSServer Value: localhost Details: SMS server.  
Key: VSCProtocolValue: https Details: VSC protocol.  
Key: RESTTimeoutValue: 10800000 Details: REST Timeout for SMCore proxy  
(in milliseconds).  
Key: RESTConnectionLimitValue: 1500 Details: The maximum number of  
concurrent connections allowed on REST endpoint.  
Key: ServicesBaseAddressValue: https://localhost:8152 Details: Service  
base address.  
Key: SnapCenterServerVersionValue: 1.0.0.0Details: SnapCenter server  
version.  
Key: PSDirectoryValue: WindowsPowerShell\v1.0\Modules\SnapCenter\log  
Details: PS directory.  
Key: smcoreport Value: 8152 Details: SMCore port.
```

Get-SmCredential

Gets credentials of the plug-ins that are registered with the SnapCenter Server.

Syntax

```
Get-SmCredential [-Name] <String>
```

Detailed Description

Gets and displays the credential information of all the plug-ins that are registered with the SnapCenter Server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name		false	true (ByPropertyName)	

Examples

Example 1: Get all Credentials

```
Get-SmCredential
```

Example 2: Get particular Credential

```
Get-SmCredential -Name RunAs1
```

Example 3: Get particular Azure NetApp Credential

```
Get-SmCredential -Name RunAsAzure1
```

```
Output of above Get-SmCredential command:
Id : 3
RunAsName : RunAsAzure1
OwnerId: 1
AuthMode  : AzureCredential
ClientSecret :
TenantId  : ten
ClientId   : cl
```

Get-SmDataCollectionEmsSchedule

Retrieves the EMS data collection schedule.

Syntax

```
Get-SmDataCollectionEmsSchedule
```

Detailed Description

Retrieves the EMS data collection schedule. By default, EMS data collection occurs every seven days, starting one week from your installation date. You can also configure EMS data collection.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	---------------	----------------	---------------

Examples

Example 1: Getting the EMS data collection schedule

```
Get-SmDataCollectionEmsSchedule
```

This example syntax retrieves your EMS data collection schedule

```
StartTime DaysInterval  
-----  
"08/27/2015 2:00 AM"  
7
```

Get-SmDataCollectionEmsStatus

Retrieves the EMS data collection status.

Syntax

```
Get-SmDataCollectionEmsStatus
```

Detailed Description

Retrieves the EMS data collection status. Getting the status information shows whether you have enabled or disabled your EMS data collection.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	---------------	----------------	---------------

Examples

Example 1: Getting EMS data collection status

```
Get-SmDataCollectionEmsStatus
```

This example syntax retrieves your EMS data collection status.

Enabled

True

Get-SmDataCollectionEmsTarget

Gets information about the EMS data collection target.

Syntax

```
Get-SmDataCollectionEmsTarget
```

Detailed Description

Gets information about the EMS data collection target. The EMS data collection target is the storage system to which you want to send the EMS messages.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	---------------	----------------	------------------

Examples

Example 1: Getting the EMS data collection target storage system

```
Get-SmDataCollectionEmsTarget
```

This example syntax retrieves the EMS collection target storage system

Target

SVM1

Get-SmDomain

Gets all the domains registered with the SnapCenter server.

Syntax

```
Get-SmDomain [-Name] <String>
```

Detailed Description

Gets and displays information of all the domains or a specific domain registered with SnapCenter Server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	NETBIOS Name of the registered domain to get the information.	false	true (ByPropertyName)	

Examples

Example 1: Gets all the domains registered with SnapCenter Server.

```
Get-SmDomain
```

```
Result:
Id : 2
Name   : ad12
DomainFQDN : ad12.test.netapp.com
DCHostIPAddresses :
TrustedDomains :
CreatedOn  : 4/11/2018 10:19:49 PM
ModifiedOn : 4/13/2018 2:37:53 AM
Port      : 389
Protocol   : LDAP
DCHostNames:
Id : 1
Name   : ad19
DomainFQDN : ad19.test.netapp.com
DCHostIPAddresses :
TrustedDomains :
CreatedOn  : 9/22/2021 10:06:34 PM
ModifiedOn : 9/23/2021 6:05:29 AM
Port      : 636
Protocol   : LDAPS
DCHostNames: WS9K19DC.ad19.test.netapp.com
```

Example 2: Get a specific registered domain.

```
Get-SmDomain -Name ad12
```

```
Result:
Id : 2
Name : ad12
DomainFQDN : ad12.test.netapp.com
DCHostIPAddresses :
TrustedDomains :
CreatedOn : 4/11/2018 10:19:49 PM
ModifiedOn : 4/13/2018 2:37:53 AM
Port : 389
Protocol : LDAP
DCHostNames:
```

Get-SmDownloadRepository

Provides the SnapCenter Server repository path on the local host. SnapCenter uses this path to store Compatibility File and plug-in installation packages.

Syntax

```
Get-SmDownloadRepository
```

Detailed Description

Provides the SnapCenter Server repository path on the local host. SnapCenter uses this path to store Compatibility File and plug-in installation packages. You can also use this cmdlet after the Set-SmDownloadRepository cmdlet to verify changes to the installation package download repository.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	------------	----------------	---------------

Examples

Example 1: Verifying the plugin installation download repository location

```
Get-SmDownloadRepository
```

This example syntax verifies the location of the plug-in installation download repository.

Get-SmDownloads

Gets a supportability metrics between SnapCenter Server version and plug-in version.

Syntax

```
Get-SmDownloads
```

Detailed Description

Gets and displays the details of plug-in versions supported by SnapCenter Servers.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	------------	----------------	---------------

Examples

- Example: Get the details of all the plug-in versions supported by different SnapCenter Server versions. -

```
Get-SmDownloads
```

This example syntax retrieves the supportability metrics between the SnapCenter Server version and the plug-in version.

```
Compatibility file version: 4.4
SMS_Name: SnapCenter Server 2.0
Version : 2.0.0.2953
SMS_GUID: 166EB1F4-0BD6-434E-B2D3-85F64FF9969B
Family_GUID : 52B25C41-C093-4B94-87AA-CC3004A4482D
NOW_Path: http://mysupport.netapp.com/NOW/cgi-bin/software/
Hash: 123123123123123123
Comments: Supports Windows Server 2012 R2
Downloaded : False
Repository_Path :
SupportedPluginPackages : {, , , ...}
IsCurrent : False
ReleaseVersion : 2.0
Name:
Type:
Id :
```

```
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0
SizeOfSmObject : SMCoreContracts.SmObjectSize
SMS_Name: SnapCenter Server 2.0 P1
Version : 2.0.1.21
SMS_GUID: 8DBF2456-EB7E-4E26-A324-0AF8864208D3
Family_GUID : 52B25C41-C093-4B94-87AA-CC3004A4482D
NOW_Path: http://mysupport.netapp.com/NOW/cgi-bin/software/
Hash: 123123123123123123
Comments: Supports Windows Server 2012 R2
Downloaded : False
Repository_Path :
SupportedPluginPackages : {, , , ...}
IsCurrent : False
ReleaseVersion : 2.0.1
Name:
Type:
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0
SizeOfSmObject : SMCoreContracts.SmObjectSize
SMS_Name: SnapCenter Server 2.0 P2
Version : 2.0.1.26
SMS_GUID: AE5A8605-C9C5-4162-8663-E8D9993AB32A
```

```
Family_GUID : 52B25C41-C093-4B94-87AA-CC3004A4482D
NOW_Path: http://mysupport.netapp.com/NOW/cgi-bin/software/
Hash: 123123123123123123
Comments: Supports Windows Server 2012 R2
Downloaded : False
Repository_Path :
SupportedPluginPackages : {, , , ...}
IsCurrent : False
ReleaseVersion : 2.0.1
Name:
Type:
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0
SizeOfSmObject : SMCoreContracts.SmObjectSize
Note: This is just snippet of the output.
```

Get-SmHost

Gets information about one or more hosts.

Syntax

```
Get-SmHost [-HostNames] <String> [-IncludePluginInfo] <Boolean> [-
IncludeVerificationServerInfo] <Boolean> [-OsType]
<SmOperatingSystemType> [-PluginCode] <PluginCode>
```

Detailed Description

Gets information about one or more hosts. The information includes the host status and plug-ins on the hosts.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostNames		false	true (ByPropertyName)	
IncludePluginInfo		false	true (ByPropertyName)	
IncludeVerificationServerInfo		false	true (ByPropertyName)	
OsType	Specifies the type of operating system running on the host. Valid values are AIX, Windows, Linux, and vSphere.	false	true (ByPropertyName)	
PluginCode		false	true (ByPropertyName)	

Examples

Example 1: Get a SnapCenter registered AIX host

```
Get-SmHost -HostNames aix207-193.gdl.englab.netapp.com
```

This example syntax gets the registered AIX host.

```
OsInfo : SMCoreContracts.SmOperatingSystemInfo
HostName : aix207-193.gdl.englab.netapp.com
IP : 10.10.207.193
Description:
HostId : 63
DomainName : gdl.englab.netapp.com
Version:
Port : 8145
ClusterHost: False
ClusterName:
Members: {}
HostStatus : eHostUp
HostPluginInfos: {}
ColoHost : False
HostConfiguration :
DiscoverPlugin : False
HostUUID :
HostBIOSID :
HostMaintenanceStatus : Production
IsNLBEnabled : False
VerificationServers:
HypervisorType :
IsHypervisorConfigured : False
Preference : 0
OverallStatus : SMCoreContracts.SmHostOverallStatusInfo
IsCatalogHost : False
Name :
Type :
Id :
Host : gdl.englab.netapp.com
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts :
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0
SizeOfSmObject :
```

Get-SmHostSignature

Displays the certificate status for the SnapCenter Server or a SnapCenter plug-in host.

Syntax

```
Get-SmHostSignature [-HostName] <String> [-CredentialName] <String>
```

Detailed Description

Displays the certificate status for the SnapCenter Server or a SnapCenter plug-in host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName	Specifies the name of the host.	true	false	
CredentialName	Specifies the credential name added to SnapCenter.	true	false	

Examples

Example 1: Displays the host signature of Linux Host

```
Get-SmHostSignature -HostName schana01.gdl.englab.netapp.local  
-CredentialName rootlinux
```

This example syntax displays the host signature of Linux Host.

```
HostName FingerPrint Length HostKeyname  
-----  
schana01.gdl.englab.netapp.local  
9E:81:CB:7E:0B:D1:F5:AD:C1:9B:A9:26:EC:F1:2B:D5256 ssh-ed25519
```

Example 2: Displays the host signature of AIX Host

```
Get-SmHostSignature -HostName sccaixlp2.gdl.englab.netapp.com  
-CredentialName rootaix
```

This example syntax displays the host signature of Linux Host.

```
HostNameFingerPrint Length HostKeyname
-----
sccaixlp2.gdl.englab.netapp.com
18:1C:B9:C3:77:DE:57:EB:BC:D8:E2:8B:64:4E:38:66256 ssh-ed25519
```

Get-SmJobSummaryReport

Initiates a job summary report.

Syntax

```
Get-SmJobSummaryReport [-Date] <DateTime> [-JobId] <Int64>
```

Detailed Description

Initiates a job summary report. A job summary report provides information on every job initiated by SnapCenter on a specified day, along with a breakdown of the job status. The job summary report provides similar data to the job information in the Monitor page of the SnapCenter GUI, however here the job information is limited to one day.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Date	Specifies the day for which you want to initiate the job summary report. If the cmdlet is run from the remote computer, the output will be shown based on the SnapCenter Server time zone.	false	true (ByValue, ByPropertyName)	
JobId	To be deleted.	false	true (ByValue, ByPropertyName)	

Examples

Example 1: Initiating a job summary report for one day

```
Get-SmJobSummaryReport -Date "1/27/2015"
```

This example syntax gets a job summary report of all jobs run on January 27th, 2015.

```
SmJobId: 1750
JobCreatedDateTime :
JobStartDateTime   : 1/27/2015 12:18:13 PM
JobEndDateTime     : 1/27/2015 12:18:24 PM
JobDuration: 00:00:11.1600000
JobName: Backup of dataset 'Test' with policy 'OnDemand'
JobDescription :
Status : Completed
IsScheduled:
JobError   :
JobType: Backup
PolicyName :
SmJobId: 1781
JobCreatedDateTime :
JobStartDateTime   : 1/27/2015 1:07:14 PM
JobEndDateTime     : 1/27/2015 1:07:03 PM
JobDuration: -00:00:10.8830000
JobName: Backup of dataset 'Clone' with policy 'Vault'
JobDescription :
Status : Completed
IsScheduled:
JobError   :
JobType: Backup
PolicyName :
```

Example 2: Initiating a job summary report for failed jobs on a given day

```
Get-SmJobSummaryReport -Date "1/27/2015" | ?{$_.Status -eq "Failed" }
```

Get a job summary report for failed jobs on January 27th, 2015.

```

SmJobId: 1770
JobCreatedDateTime :
JobStartDateTime   : 1/27/2015 1:01:22 PM
JobEndDateTime     :
JobDuration:
JobName: Backup verification of dataset 'Test' with policy
'VerificationDefault'
JobDescription :
Status : Failed
IsScheduled:
JobError   : Verification server(s) are not configured in the dataset
JobType: Dataset
PolicyName :
SmJobId: 1777
JobCreatedDateTime :
JobStartDateTime   : 1/27/2015 1:06:58 PM
JobEndDateTime     :
JobDuration:
JobName: Backup verification of dataset 'Test' with policy
'VerificationDefault'
JobDescription :
Status : Failed
IsScheduled:
JobError   : Verification server(s) are not configured in the dataset
JobType: Dataset
PolicyName :

```

Get-SmLoadBalanceNode

Lists Network Load Balance (NLB) nodes and Application Request Routing (ARR) status for them.

Syntax

```
Get-SmLoadBalanceNode
```

Detailed Description

Lists Network Load Balance (NLB) nodes and Application Request Routing (ARR) status for them.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	---------------	----------------	------------------

Examples

Example 1: Getting the current NLB nodes and ARR

```
Get-SmLoadBalanceNode
```

This example syntax lists the current Network Load Balance (NLB) nodes and Application Request Routing (ARR) and their status.

Get-SmLogSettings

Retrieves log settings.

Syntax

```
Get-SmLogSettings [-Server] <> [-Agent] <> [-HostName] <String> [-  
Plugin] <> [-HostName] <String> [-PluginCode] <PluginCode>
```

Detailed Description

Retrieves the log settings for SnapCenter, a host, or a plug-in. Log setting determine the log severity level, the maximum file size for the log file, the maximum number of log file backups to retain, and the maximum size for all job log files.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Server	Retrieves log file settings for SnapCenter Server.	true	false	
Agent	Specifies that you want to retrieve log file settings for SnapCenter host agent.	true	false	
HostName	Provides the host name for the SnapCenter host that will capture the log files.	true	false	
Plugin	Specifies that you want to retrieve log file settings for a plug-in.	true	false	

Name	Description	Required ?	Pipeline Input	Default Value
PluginCode	Provides the plug-in code for the plug-in for which you want to retrieve the log file settings. Valid plug-in codes are SCSQL, SCV, and SCO. For custom plug-ins, the plug-in code is the name of the custom plug-in.	true	false	

Examples

Example 1: Getting log file settings for SnapCenter Server

```
Get-SmLogSettings -Server
```

This example syntax retrieves log file settings for SnapCenter Server.

```
LogSettingsId      : 1
LogSettingsType    : Server
LogLevel          : All
MaxFileSize        : 10485760
MaxSizeRollBackups : 10
JobLogsMaxFileSize : 104857600
HostId            :
HostName           :
PluginInfoId       :
PluginCode         :
```

Example 2: Getting log file settings for SnapCenter host agent

```
Get-SmLogSettings -Agent -HostName host123
```

This example syntax retrieves log files for the SnapCenter host agent.

```
LogSettingsId : 1
LogSettingsType: Agent
LogLevel      : All
MaxFileSize: 10485760
MaxSizeRollBackups : 10
JobLogsMaxFileSize : 104857600
HostId : 1
HostName : bryankDev
PluginInfoId :
PluginCode :
```

Example 3: Getting log file settings for plugins

```
Get-SmLogSettings -Plugin -PluginCode SCSQL -HostName bryankDev
```

This example syntax retrieves plug-in log file settings.

```
LogSettingsId : 1
LogSettingsType: Plugin
LogLevel      : Info
MaxFileSize: 10485760
MaxSizeRollBackups : 10
JobLogsMaxFileSize : 104857600
HostId : 1
HostName : bryankDev
PluginInfoId : 1
PluginCode : SMSQL
```

Get-SmLogs

Gets SnapCenter log files.

Syntax

```
Get-SmLogs [-Path] <String> [-AllLogs] <> [-Path] <String> [-
ServerLogs] <> [-Path] <String> [-JobId] <Int64> [-Path] <String>
[-PluginId] <Int64> [-Path] <String> [-HostName] <String> [-
PluginCode] <PluginCode>
```

Detailed Description

Gets SnapCenter log files. Log files are returned in a .zip file. You can retrieve all SnapCenter logs, or logs for a individual plug-in or SnapCenter instance. You can also get logs for a specified job.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Path	Specifies the path for the location to which you want the log .zip file to be written.	true	false	
AllLogs	Indicates that you want to receive all SnapCenter logs, which include SnapCenter server, managed host, and plug-in logs.	true	false	
ServerLogs	Indicates that you want to receive logs for the SnapCenter server only.	true	false	
JobId	Indicates that you want to receive information for a specified job ID.	true	false	
PluginId	Indicates that you want to receive information for the specified plug-in ID.	true	false	
HostName	Specifies the host for the plug-in instance for which you want to retrieve logs.	false	false	
PluginCode	Indicates that you want to create log settings pertaining to a specified plug-in instance. Valid plug-in values are SCSQL and SCO. For example, if you want to retrieve the SnapCenter Plug-in for Microsoft SQL Server logs, the plug-in code is SCSQL.	true	false	

Examples

Example 1: Retrieving all logs

```
Get-SmLogs -AllLogs -Path C:\temp\allLogs.zip
```

This example syntax retrieves all log files.

Example 2: Retrieving SnapCenter Server logs

```
Get-SmLogs -Path C:\temp\serverLogs.zip -ServerLogs
```

This example syntax retrieves all Server logs.

Example 3: Retrieving plugin instance logs

```
Get-SmLogs -HostName host123 -Path C:\temp\smsqlLogs.zip -PluginCode  
SCSQL
```

This example syntax retrieves all plug-in instance logs for SnapCenter Plug-in for Microsoft SQL Server.

Example 4: Retrieving logs for a designated job

```
Get-SmLogs -JobId 1234 -Path C:\temp\job_1234.zip
```

This example syntax retrieves logs for job ID 1234.

Get-SmMultiFactorAuthentication

Gets the MFA configuration of the SnapCenter GUI, Rest API, PowerShell and sccli.

Syntax

```
Get-SmMultiFactorAuthentication [-] <>
```

Detailed Description

Gets the MFA configuration of the SnapCenter GUI, Rest API, PowerShell and sccli.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	---------------	----------------	------------------

Examples

Example 1: Get MultiFactorAuthentication configuration

```
Get-SmMultiFactorAuthentication
```

This example syntax gets the MFA configuration of the SnapCenter GUI, Rest API, PowerShell and sccli.

IsGuiMFAEnabled = True

ADFSSConfigFilePath = C:\\ADFS_metadata\\FederationMetadata.xml

SCConfigFilePath = c:\\ProgramData\\NetApp\\SnapCenter\\Package Repository\\SnapCenterMFAMetadata.xml

IsRestApiMFAEnabled = False

IsCliMFAEnabled = False

ADFSSHostName = adfs19.ad19domain.com

Get-SmPluginConfiguration

Gets the plug-in configuration for a host.

Syntax

```
Get-SmPluginConfiguration [-PluginCode] <PluginCode> [-HostName]  
<String>
```

Detailed Description

Gets the plug-in information for a host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PluginCode	The plug-in code. Valid values are SCW, SCSQL, and SCO.	true	true (ByPropertyName)	
HostName	The name of the host on which the plug-in is installed.	true	true (ByPropertyName)	

Examples

Example 1: Getting plugin configuration information for a host

```
Get-SmPluginConfiguration -PluginCode SCSQL -HostName localhost
```

This example syntax gets the SnapCenter plug-in configuration for the specified host.

```
PluginInfoId :
HostName :
PluginName: SnapCenter Plug-in for Microsoft SQL Server
PluginVersion :
InstallPath :
Description :
VendorName:
EndpointURI : http://localhost:809/SqlManagementService
DateCreated :
DateModified :
Message :
Resources : {}
PluginCode: SMSQL
PluginConfiguration : SMCoreContracts.SmSqlConfiguration
ServiceName :
DisplayName :
ServiceStatus : Unavailable
PluginServiceAction : None
Port : 0
GUID :
PluginCompatibilityStatus : None
LicenseType : None
LicenseKey:
PluginInstallStatus : ePluginInstallStatusUnknown
HostMaintenanceStatus : Production
TCPPort : 0
Auth : SMCoreContracts.SmAuth
```

Get-SmPluginPackage

Gets information about plug-in packages that have been uploaded for a specific custom plug-in.

Syntax

```
Get-SmPluginPackage [-PluginName] <String>
```

Detailed Description

Gets information about the plug-in packages that are uploaded for a specific custom plug-in.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PluginName	Specifies the name of the custom plug-in for which you want to determine the uploaded plug-ins.	false	false	

Examples

Example 1: Get information about a custom plugin package

```
Get-SmPluginPackage -PluginName DB2
```

This example syntax gets all uploaded package version information of the custom plug-in named DB2.

```
CustomPluginName: DB2
CustomPluginVersion : 1.0
CustomPluginType:
OsInfo   : SMCoreContracts.SmOperatingSystemInfo
Resources : {SMCoreContracts.SmSCCustomResourceType}
RequireFileSystemPlugin : False
UploadedFileName: DB2_1.0.zip
CustomPluginDisplayName : IBM DB2
CustomPluginName: DB2
CustomPluginVersion : 2.0
CustomPluginType:
OsInfo   : SMCoreContracts.SmOperatingSystemInfo
Resources : {SMCoreContracts.SmSCCustomResourceType}
RequireFileSystemPlugin : False
UploadedFileName: DB2_2.0.zip
CustomPluginDisplayName : IBM DB2
```

Get-SmPluginReport

Initiates a plug-in report.

Syntax

```
Get-SmPluginReport [-Plugin] <PluginCode> [-HostName] <String> [-ResourceGroup] <String> [-DayCount] <Int32> [-Terse] <>
```

Detailed Description

Initiates a plug-in report. A plug-in report provides backup information about resources managed by a specified SnapCenter plug-in. For example, the report shows you how many SnapCenter Plug-in for Microsoft SQL Server resources have been backed up, which resources have failed backups, which resources are unprotected, and which resources do not have SnapVault updates. This report provides information for a time period you specify. The default time period is 7 days.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Plugin	Specifies the plug-in code for which you want a plug-in activity report. For example, if you want this report for SnapCenter Plug-in for Microsoft SQL Server, enter SCSQL. Valid plug-in values are SCW, SCSQL, and SMO.	true	true (ByPropertyName)	
HostName	Specifies the name of the host on which the plug-in instance is installed. You can specify the host name or IP address if you want to run a plug-in activity report for only one instance of a plug-in.	false	true (ByPropertyName)	
ResourceGroup		false	true (ByPropertyName)	
DayCount	Indicates the number of days for which you want plug-in activity reported. For example, if you want to get information for the last 5 days, enter 5. The default is 7 days.	false	true (ByPropertyName)	
Terse	Indicates that you want to receive only limited information. Specifying terse gives you just the number of databases that are protected, unprotected, with backups that have failed, and that have no SnapVault updates.	false	false	

Examples

Example 1: Getting a plugin report

```
Get-SmPluginReport -Plugin SCSQL
```

This example syntax gets a plug-in report for the SnapCenter Plug-in for Microsoft SQL Server.

```
BackupCount      : 29
AgedBackupCount  : 25
ProtectedObjectCount :
NotBackedUpObjectCount : 0
UnprotectedObjectCount : 1
FailedBackupObjectCount : 0
UnprotectedBackupObjectCount : 0
AllObjectCount   : 6
Backups          : {Test, Test, Test, Test...}
NotBackedUpObjects : {}
UnprotectedObjects : {TestDB6}
FailedBackupObjects : {}
UnprotectedBackupObjects : {}
Result           : SMCoreContracts.SMResult
TotalCount       : 0
DisplayCount     : 0
Context          :
Job              : SMCoreContracts.SmJob
```

Example 2: Getting a plugin report for a specific plugin instance and number of days

```
Get-SmPluginReport -Plugin SCSQL -HostName
SCSPR0019366001.gdl.mycompany.com
```

This example syntax gets a plug-in report for the SnapCenter Plug-in for Microsoft SQL Server.

```
BackupCount      : 29
AgedBackupCount  : 25
ProtectedObjectCount :
NotBackedUpObjectCount : 0
UnprotectedObjectCount : 1
FailedBackupObjectCount : 0
UnprotectedBackupObjectCount : 0
AllObjectCount   : 6
Backups          : {Test, Test, Test, Test...}
NotBackedUpObjects : {}
UnprotectedObjects : {TestDB6}
FailedBackupObjects : {}
UnprotectedBackupObjects : {}
Result           : SMCoreContracts.SMResult
TotalCount       : 0
DisplayCount     : 0
Context          :
Job              : SMCoreContracts.SmJob
```

Example 3: Limiting the amount of information in the plugin report

```
Get-SmPluginReport -Plugin SCSQL -Terse
```

This example syntax gets a plug-in report for the SnapCenter Plug-in for Microsoft SQL Server that only includes resource counts.

```
BackupCount      : 29
AgedBackupCount  : 25
ProtectedObjectCount :
NotBackedUpObjectCount : 0
UnprotectedObjectCount : 1
FailedBackupObjectCount : 0
UnprotectedBackupObjectCount : 0
AllObjectCount   : 6
```

Get-SmPolicy

Retrieves details about one or more policy.

Syntax

```
Get-SmPolicy [-PolicyName] <String> [-DatasetName] <String>
```

Detailed Description

Retrieves details about one or more policy. You can retrieve details about a specific policy or about all policies in a resource group.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PolicyName	Specifies the name of the policy for which you want details.	false	true (ByPropertyName)	
DatasetName	Specifies a dataset. This parameter retrieves policy details for each policy in the dataset.	false	true (ByPropertyName)	

Examples

Example 1: Retrieving information about a policy

```
Get-SmPolicy -PolicyName "Full Backup with Replication"
```

This example syntax gets information about the specified policy.

```
ApplySnapvaultUpdate: True
ApplyRetention      : True
RetentionCount      : 2
RetentionDays       : 0
ApplySnapMirrorUpdate : True
SnapVaultLabel      : OneTime
MirrorVaultUpdateRetryCount : 7
AppPolicies         : {}
Description         :
PreScriptPath       :
PreScriptArguments   :
PostScriptPath       :
PostScriptArguments  :
ScriptTimeout       : 60000
DateModified: 6/10/2015 7:18:50 PM
DateCreated : 6/8/2015 11:03:07 PM
Schedule: SMCoreContracts.SmSchedule
PolicyType  : Backup
```

```
PluginPolicyType: SMSQL
Name: Full Backup with Replication
Type:
Id : 1
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
SmSqlBackupType: FullBackup
CopyOnlyBackup : False
CopyOnlyLogBackup : False
UtmType: None
UtmCounts : 7
UtmDays: 14
RunLiveDBCCBefore : False
RunLiveDBCCAfter : False
RetentionType :
TruncateLog: True
VerificationAfterBackup: False
TransLogMark :
TransLogDescription:
AGBackupType : UsePreferredBackupReplica
AGReplicaType : Primary
AGBackupPriorityMin: 1
AGBackupPriorityMax: 100
VerifyLogBackup: False
MaxDbConcurrentBackup : 35
CreateLogFolderSnapshot: True
DeleteLogFolderSnapshot: False
LogFolderSnapshotRetentionType :
LogFolderSnapshotCounts: 0
LogFolderSnapshotDays : 0
DeleteLogInShare : False
LogInShareRetentionType:
LogInShareCounts :
LogInShareDays :
CopyLogToShare : False
CopyLogToShareType :
VerifyPolicy : SMCoreContracts.SmVerificationPolicy
Name :
Type :
Id :
Host :
```

```
UserName      :
Passphrase    :
Deleted: False
Auth         : SMCoreContracts.SmAuth
IsClone: False
CloneLevel   : 0
```

Example 2: Retrieving information for policies in a dataset

```
Get-SmPolicy -DatasetName DB_ON_I_S_DRIVE_ds
```

```
ApplySnapvaultUpdate: True
ApplyRetention      : True
RetentionCount      : 2
RetentionDays       : 0
ApplySnapMirrorUpdate : True
SnapVaultLabel      : OneTime
MirrorVaultUpdateRetryCount : 7
AppPolicies         : {}
Description         :
PreScriptPath       :
PreScriptArguments  :
PostScriptPath      :
PostScriptArguments :
ScriptTimeOut       : 60000
DateModified: 6/10/2015 7:18:50 PM
DateCreated  : 6/8/2015 11:03:07 PM
Schedule: SMCoreContracts.SmSchedule
PolicyType   : Backup
PluginPolicyType: SMSQL
Name: Full Backup with Replication
Type:
Id  : 1
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
SmSqlBackupType: FullBackup
CopyOnlyBackup : False
CopyOnlyLogBackup : False
UtmType: None
```

```

UtmCounts    : 7
UtmDays: 14
RunLiveDBCCBefore  : False
RunLiveDBCCAfter   : False
RetentionType  :
TruncateLog: True
VerificationAfterBackup: False
TransLogMark    :
TransLogDescription:
AGBackupType    : UsePreferredBackupReplica
AGReplicaType   : Primary
AGBackupPriorityMin: 1
AGBackupPriorityMax: 100
VerifyLogBackup: False
MaxDbConcurrentBackup  : 35
CreateLogFolderSnapshot: True
DeleteLogFolderSnapshot: False
LogFolderSnapshotRetentionType :
LogFolderSnapshotCounts: 0
LogFolderSnapshotDays  : 0
DeleteLogInShare       : False
LogInShareRetentionType:
LogInShareCounts       :
LogInShareDays         :
CopyLogToShare         : False
CopyLogToShareType     :
VerifyPolicy           : SMCoreContracts.SmVerificationPolicy
Name                   :
Type                   :
Id                     :
Host                   :
UserName               :
Passphrase             :
Deleted: False
Auth                   : SMCoreContracts.SmAuth
IsClone: False
CloneLevel             : 0

```

GetSmPolicy for custom DB2 plugin

```
Get-SmPolicy -PolicyName SECONDARY_SNAPMIRROR
```

Custom plug-in DB2 policy with SnapMirror update enabled

```
BackupType      : DATA
SchedulerType   : None
RetentionCount  : 24
RetentionDays   : 0
VerificationEnabled : False
ApplyRetention  : True
ApplySnapMirrorUpdate : True
ApplySnapvaultUpdate: False
MirrorVaultUpdateRetryCount : 3
RetentionCount  : 24
RetentionDays   : 0
SnapVaultLabel  :
AppPolicies     : {}
DateCreated     : 8/21/2016 4:23:20 PM
DateModified    : 8/21/2016 4:23:20 PM
Description     : testPolicy
PluginPolicyType: DB2
PolicyType      : Backup
PostScriptArguments :
PostScriptPath   :
PreScriptArguments :
PreScriptPath    :
Schedules       : {}
Schedule: SMCoreContracts.SmSchedule
ScriptTimeout    : 60
Name: SECONDARY_SNAPMIRROR
Type:
Id   : 23
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts     : {}
PolicyId  : 23
PluginName : DB2
PluginParams : SMCoreContracts.SmKeyValueCollection
Name      :
Type      :
Id        :
Host      :
UserName  :
Passphrase :
Deleted   : False
```

```
Auth : SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts: {}
```

Get-SmReportSchedule

Get the list of report schedules using this cmdlet.

Syntax

```
Get-SmReportSchedule [-Name] <String> [-Plugin] <PluginCode> [-Enabled] <Boolean>
```

Detailed Description

Get the list of report schedules created either by the logged in user or the users with the same role as that of the logged in user.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Get the schedule based on the schedule name.	true	true (ByPropertyName)	
Plugin	Get the schedule based on the Plug-in name. Specify "all" to get the schedules configured with "All Plug-ins" Plug-in.	true	true (ByPropertyName)	
Enabled	Get the schedules for a specific schedule status (enabled or disabled). Pass \$true or 1 to fetch all the enabled schedules and \$false or 0 to fetch all the disabled schedules.	false	true (ByPropertyName)	

Examples

Example 1: Get the details of a specific report schedule.

```
Get-SmReportSchedule -Name schedule1
```

This example gets the details of a specific schedule.

```
ScheduleReportId : 225
ScheduleName : Schedule1
Enabled : True
PluginCode: SCO
PluginName: Oracle Database
PluginDisplayName : Oracle Database
FormatType: PDF
DayOfTheWeek : Monday
DayOfTheMonth :
TriggerTime : 21:00
EmailSubject : SnapCenter Weekly Report for Oracle Database
FromEmail : user@domain.com
Recipients : user1@domain.com,user2@domain.com
UserId: 1
RoleId: 1
ReportData: Backup,Clone,Restore,Protection
Frequency : 9:00 pm Monday every week
CreatedBy : Administrator
ScheduleType : Weekly
```

Example 2: Get the report schedules based on plug-in name.

```
Get-SmReportSchedule -Plugin SCO
```

This example gets the list of schedules created for a specific plug-in.

```

ScheduleReportId : 225
ScheduleName : Schedule1
Enabled : True
PluginCode: SCO
PluginName: Oracle Database
PluginDisplayName : Oracle Database
FormatType: PDF
DayOfTheWeek : Monday
DayOfTheMonth :
TriggerTime : 21:00
EmailSubject : SnapCenter Weekly Report for Oracle Database
FromEmail : user@domain.com
Recipients: user1@domain.com,user2@domain.com
UserId: 1
RoleId: 1
ReportData: Backup,Clone,Restore,Protection
Frequency : 9:00 pm Monday every week
CreatedBy : Administrator
ScheduleType : Weekly
ScheduleReportId : 217
ScheduleName : Schedule2
Enabled : True
PluginCode: SCO
PluginName: Oracle Database
PluginDisplayName : Oracle Database
FormatType: PDF
DayOfTheWeek :
DayOfTheMonth :
TriggerTime : 01:01
EmailSubject : SnapCenter Daily Report for Oracle Database
FromEmail : user@domain.com
Recipients: user1@domain.com,user2@domain.com
UserId: 1
RoleId: 1
ReportData:
Frequency : 1:01 am every day
CreatedBy : Administrator
ScheduleType : Daily

```

Example 3: Get the enabled or disabled report schedules.

```
Get-SmReportSchedule -Enabled $true
```

This example gets the list of all enabled schedules. Pass \$true or 1 to fetch all the enabled schedules and

\$false or 0 to fetch all the disabled schedules.

```
ScheduleReportId : 202
ScheduleName      : Schedule3
Enabled          : False
PluginCode       : All
PluginName       : All Plug-ins
PluginDisplayName : All Plug-ins
FormatType       : PDF
DayOfTheWeek     : Monday
DayOfTheMonth    :
TriggerTime      : 21:00
EmailSubject     : SnapCenter Weekly Report for All Plug-ins
FromEmail        : user@domain.com
Recipients       : user1@domain.com,user2@domain.com
UserId           : 1
RoleId           : 1
ReportData       : Backup,Clone,Restore,Protection
Frequency        : 9:00 pm Monday every week
CreatedBy        : Administrator
ScheduleType     : Weekly
ScheduleReportId : 221
ScheduleName     : Schedule4
Enabled          : False
PluginCode       : SCO
PluginName       : Oracle Database
PluginDisplayName : Oracle Database
FormatType       : PDF,CSV
DayOfTheWeek     : monday
DayOfTheMonth    :
TriggerTime      : 01:10
EmailSubject     : SnapCenter Weekly Report for Oracle Database
FromEmail        : user@domain.com
Recipients       : user1@domain.com,user2@domain.com
UserId           : 1
RoleId           : 1
ReportData       :
Frequency        : 1:10 am monday every week
CreatedBy        : Administrator
ScheduleType     : Weekly
```

Get-SmRepositoryBackups

Gets the backup and saves the metadata to the active file system (AFS).

Syntax

```
Get-SmRepositoryBackups [-Hostname] <String> [-SMSbaseUrl] <String>
```

Detailed Description

Gets the backup and saves the metadata to the active file system (AFS).

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Hostname	Specifies the SnapCenter database host name. If the SnapCenter database is hosted by a failover cluster instance (FCI), then specify the FCI owner host name.	false	true (ByPropertyName)	
SMSbaseUrl	Specifies the SnapCenter Server URL. This is required when executing a PowerShell command from a plug-in machine. For example: -SMSbaseUrl https://172.17.166.128:8146	false	true (ByPropertyName)	

Examples

Example 1: Retrieving repository backups

```
Get-SmRepositoryBackups
```

This example syntax retrieves repository backups.

Get-SmRepositoryConfig

Displays the repository configuration information.

Syntax

```
Get-SmRepositoryConfig [-SMSbaseUrl] <String>
```

Detailed Description

Displays the repository configuration information.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
SMSbaseUrl	Specifies the SnapCenter Server base URL. The base URL includes the name or IP address of the SnapCenter Server, and, if the remote system is in a different domain from that of the SnapCenter Server, the domain name. For example: https://SNAPCENTER_SERVER_NAME/DOMAIN_NAME .	false	true (ByPropertyName)	

Examples

Example 1: Displaying the MySQL repository details

```
Get-SmRepositoryConfig
```

This example syntax displays the MySQL repository details.

```
ActiveRepository      : 10.236.221.0
ReplicationServers    : 10.236.221.0,10.236.221.34
ReplicationStatus     : Healthy
ReplicationIssues     :
LastSwitchoverTime    : 4/28/2017 7:11:10 AM
```

Example 2: Displaying MySQL repository details from a remote host to SnapCenter using a base URL

```
Get-SmRepositoryConfig -SMSbaseUrl https://10.236.221.75:8146/
```

This example syntax displays the MySQL repository details from a remote host to SnapCenter using the specified base URL.

```
ActiveRepository      : 10.236.221.0
ReplicationServers    : 10.236.221.0,10.236.221.34
ReplicationStatus     : Healthy
ReplicationIssues     :
LastSwitchoverTime    : 4/28/2017 7:11:10 AM
```

Get-SmResourceCredentialName

Gets credential information of the SQL instance that are registered with the SnapCenter Server.

Syntax

```
Get-SmResourceCredentialName [-HostName] <String> [-ResourceName]
<String> [-ResourceId] <String>
```

Detailed Description

Gets and displays the credential information of the SQL instance that are registered with the SnapCenter Server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName		false	true (ByPropertyName)	
ResourceName		false	true (ByPropertyName)	
ResourceId		false	true (ByPropertyName)	

Examples

- **Example : Get the credential information of the SQL instance by the resource name. -**

```
Get-SmResourceCredentialName -ResourceName R708202074BV1\SQL2019
```

This example syntax retrieves the credential information of the SQL instance based on the resource name.

```
Name      : R708202074BV1\SQL2019
Type      : SQL Instance
Id        : 20
Host      : R708202074BV1.HNK2.com
UserName   :
Passphrase :
Deleted    : False
Auth       : SMCoreContracts.SmAuth
IsClone    : False
CloneLevel : 0
Hosts      : {}
StorageName:
ResourceGroupNames :
PolicyNames:
Key        : 0
NsmObjectID: 0
SizeOfSmObject : SMCoreContracts.SmObjectSize
Id         : 3
RunAsName  : Hnkn
AuthMode   : Windows
UserName   : HNK2\administrator
Passphrase :
OwnerId    :
HostName   :
InstanceName :
CheckforAdministratorPrivilage : False
TargetURL  :
IsSudoEnabled : False
```

Get-SmResourceGroup

Retrieves details about resource groups.

Syntax

```
Get-SmResourceGroup [-ResourceGroupName] <String> [-ListResources] <>
[-ListConfiguration] <> [-ListPolicies] <>
```

Detailed Description

Retrieves details about resource groups. Entering GetSmResourceGroup with no parameters specifies retrieves information about all resource groups.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ResourceGroupName	Specifies a resource group name for which you want to retrieve details.	false	true (ByPropertyName)	
ListResources	Specifies whether or not resources for a resource group are listed.	false	true (ByPropertyName)	
ListConfiguration	Specifies whether or not configuration information for a resource group is listed.	false	true (ByPropertyName)	
ListPolicies	Specifies whether or not policies in a resource group are listed.	false	true (ByPropertyName)	

Examples

Example 1: Getting all resource group information

```
Get-SmResourceGroup
```

This example syntax retrieves information about all resource groups.

```
Description :
CreationTime: 10/10/2016 4:45:53 PM
ModificationTime: 10/10/2016 4:45:53 PM
EnableEmail : False
EmailSMTPServer :
EmailFrom :
EmailTo :
EmailSubject:
EnableSysLog: False
ProtectionGroupType : Backup
EnableAsupOnFailure : False
Policies: {}
HostResourceMapping : {}
Configuration : SMCOREContracts.SmCloneConfiguration
LastBackupStatus: Completed
VerificationServer :
EmailBody :
EmailNotificationPreference : Never
VerificationServerInfo :
SchedulerSQLInstance:
CustomText :
```

```
CustomSnapshotFormat:
SearchResources : False
ByPassRunAs : False
IsCustomSnapshot:
MaintenanceStatus : Production
PluginProtectionGroupTypes : {SMSQL}
Tag :
IsInternal : False
EnableEmailAttachment : False
VerificationSettings: {}
Name: NFS_DB
Type: Group
Id : 2
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts :
StorageName :
ResourceGroupNames :
PolicyNames :
Description :
CreationTime: 10/10/2016 4:51:36 PM
ModificationTime: 10/10/2016 5:27:57 PM
EnableEmail : False
EmailSMTPServer :
EmailFrom :
EmailTo :
EmailSubject:
EnableSysLog: False
ProtectionGroupType : Backup
EnableAsupOnFailure : False
Policies: {}
HostResourceMapping : {}
Configuration : SMCoreContracts.SmCloneConfiguration
LastBackupStatus: Failed
VerificationServer :
EmailBody :
EmailNotificationPreference : Never
VerificationServerInfo :
SchedulerSQLInstance:
CustomText :
CustomSnapshotFormat:
```

```

SearchResources : False
ByPassRunAs : False
IsCustomSnapshot:
MaintenanceStatus : Production
PluginProtectionGroupTypes : {SMSQL}
Tag :
IsInternal : False
EnableEmailAttachment : False
VerificationSettings: {}
Name: Test
Type: Group
Id : 3
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts :
StorageName :
ResourceGroupNames :
PolicyNames :

```

Get-SmResources

Discovers plug-in resources.

Syntax

```

Get-SmResources [-PluginCode] <PluginCode> [-HostName] <String> [-
UseKnownResources] <SwitchParameter> [-AppObjectType] <String> [-
AppObjectId] <String> [-IsDAG] <SwitchParameter> [-InformationAction]
<ActionPreference> [-InformationVariable] <String> [-WhatIf]
<SwitchParameter> [-Confirm] <SwitchParameter>

```

Detailed Description

Discovers plug-in resources. For SnapCenter Plug-in for Microsoft SQL Server, resources include databases, Availability Groups, and SQL Server instances. You can query one host at a time and return information about any plug-in instances installed on that host. You can use this cmdlet to get detailed information about resources located on the specified host. For SnapCenter Plug-in for Oracle Database, resources include Oracle databases and application volumes. This is useful for creating appropriate disk and SMB shares and to include resources in datasets for later data protection. If a request times out when running this cmdlet, you can add the following rest timeout value key to the out from PowerShell config file located at "C:\Windows\System32\WindowsPowerShell\v1.0\Modules\SnapCenter\SnapManager.PSModule.dll.config":

<add key="RESTTimeout" value="10800000" />

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PluginCode	The name of the plug-in for which you want to discover resources. Possible inputs include SCSQL, SCW, SCO, HANA, SCU, SCE, and SP.	true	true (ByPropertyName)	
HostName	Specifies the host name. You can query one host at a time.	true	true (ByPropertyName)	
UseKnownResources	Indicates that you want to return the cached resources. You can use this parameter when you have already queried resources from the SnapCenter GUI. In this case, you receive information only about the already discovered resources. You can use this parameter for resource verification. Oracle application volume resources are manually created by the user. These resources will always be obtained from the SnapCenter database because discovery on host is not applicable for them.	false	true (ByPropertyName)	
AppObjectType	Specifies the type of application object. For example, instance, database, or a SAP HANA SingleContainer or MultipleContainers. For SnapCenter Plug-in for Oracle Database, valid object types are Database and ApplicationVolume.	false	true (ByPropertyName)	
AppObjectId	Specifies the AppObjectId of resource. For example, -AppObjectId MVA-RX200-S13\SQLEXPRESS\DB16. For Oracle databases and application volume resources, the ID is of the format HostName\ResourceName.	false	true (ByPropertyName)	
IsDAG	Required parameter that enables SnapCenter to discover Microsoft Exchange Database Availability Groups (DAGs) when you use the SnapCenter Plug-in for Microsoft Exchange Server.	false	true (ByPropertyName)	
WhatIf		false	false	
Confirm		false	false	

Name	Description	Required ?	Pipeline Input	Default Value
DatabaseName	SAP HANA database name.	false	true (ByValue, ByPropertyName)	
ListStorageFootprint		false	true (ByValue, ByPropertyName)	
SID	This is a SAP HANA database specific parameter. A SAP HANA system is identified by a unique 3 letter system ID (SID). For example, ABC.	false	true (ByValue, ByPropertyName)	
ResourceType	Specifies the type of application object. For example, instance, database, or a SAP HANA SingleContainer or MultipleContainers.	false	true (ByValue, ByPropertyName)	
TenantDatabaseName	This is a SAP HANA database specific parameter. It is the name of the tenant database for SAP HANA Multitenant Database.	false	true (ByValue, ByPropertyName)	
ResourceName	This can be used to filter resources by their names	false	true (ByValue, ByPropertyName)	

Examples

Example 1: Discovering resources on a host

```
Get-SmResources -HostName 'vise-f6.sddev.mycompany.com' -PluginCode MSFT_SQL
```

This example syntax discovers the resources for the Microsoft SQL plug-in on the specified host.

PluginCode OperationResults

MSFT_SQL {SMCoreContracts.SmObjectOperationResult, SMCoreContract...

Example 2: Listing storage content of custom DB2 plugin resource

```
Get-SmResources -HostName 'sccorelinux61.sccore.test.com' -PluginCode DB2 -AppObjectName financeDB -ListStorageFootprint
```

This example syntax lists resource details along with StorageFoot print details of the custom plug-in resource named financeDB of DB2.

```

Completed Discovering resources: Job Id [123]
ResourceName : financeDB
ResourceVersion :
ResourceId    : sccorelinux61.sscore.test.com\Db2\financeDB
ResourceType : Instance
Protected: No
RunAsName:
ResourceSettings :
MountPaths    :
StorageFootPrint : StorageResourceType : SDStorageDir, StorageResource :
financeDB :/vol/SM1_SRC_sccorelinux61_sscore_test_com

```

Example 3: Listing SAP HANA databases of type SingleContainer

```

Get-SmResources -HostName 'scspr0204312001.gdl.englab.netapp.com'
-PluginCode HANA -AppObjectType SingleContainer

```

This example syntax lists all SAP HANA databases of resource type SingleContainer.

```

Completed Discovering Resources: Job Id [564]
DatabaseName : NonMDC6
SID : LMN
UserStoreKeys:
bGluOGfG3efS1yJZQMqOttTQH5C283MUtNTlOHU1IYhUbAH+zBtCpXAr/v89mO2Is9IoQuNKjO
OGeKD/iv4vYaP+2hK0VNM8YOf8zAU58u24RZGTrLjcLZX0OeH0JwPgGZ5Ljml629LkU7ArBMfW
Xokq6Q==
FileBackupPath : /hana/shared/LMN/HDB01/backup/data
FileBackupPrefix : SnapCenter_
OSDBUser :
ResourceId : scspr0204312001.gdl.englab.netapp.com\hana\LMN
ResourceUid : LMN
PluginName : hana
Host : scspr0204312001.gdl.englab.netapp.com
ResourceType : SingleContainer
Protected: No
RunAsName:
ResourceSettings :
MountPaths :

```

Example 4: Listing SAP HANA databases of type Multitenant Database Container

```
Get-SmResources -HostName 'scspr0204312001.gdl.englab.netapp.com'  
-PluginCode HANA -AppObjectType MultipleContainers
```

This example syntax lists SAP HANA databases of resource type MultipleContainers.

```
Completed Discovering Resources: Job Id [565]  
DatabaseName : NewRes1  
SID: BGB  
UserStoreKeys :  
YmdiOd9V1LuiyloAsPoQhXb1I32XN8mu4kmsXUT1eWA/wsEBIr0YbxAniqNQCWPJxot/bw24xE  
fTr1IUOuP8wXGP4t/DluFo4HfNIYIpEAQ9BuK9ehMQagGY9DwbsvtTrrueVzPCi0E4LafV4+Ws  
LdLaow==  
FileBackupPath : /hana/shared/PPP/HDB01/backup/data  
FileBackupPrefix : SnapCenter_  
OSDBUser :  
TenantDatabaseName : hhh  
TenantType : SingleTenant  
ResourceId : scspr0204312001.gdl.englab.netapp.com\hana\BGB\hhh  
ResourceUid: BGB\hhh  
PluginName : hana  
Host : scspr0204312001.gdl.englab.netapp.com  
ResourceType : MultipleContainers  
Protected : No  
RunAsName :  
ResourceSettings :  
MountPaths :
```

Example 5: Listing all SAP HANA resources of specified host

```
Get-SmResources -PluginCode 'hana' -HostName  
'schana02.gdl.englab.netapp.com' -UseKnownResources
```

This example lists all the SAP HANA databases of a selected host.

```
Completed Discovering Resources: Job Id [21]  
DatabaseName: R57  
SID : R57  
UserStoreKeys :  
cjU3uItRwnENhBzpUwKFGMsPL+sWzrS0LwLvH+BVhDJEh+hxGEBF00tcKka6ElLUjyXEPDULjX  
dVqw6GmlkIr+UuIa4Zq+pnGKlt0zRbM6E1ZxE8k6r8HElNgHrjY3JUsUvBS7RNQlOirVC6R2n9  
3Qfd9A==  
FileBackupPath :  
FileBackupPrefix: SnapCenter_
```

```

OSDBUser: r57adm
TenantDatabaseNames : {R57, TDB01, TDB02, TDB03}
TenantType : MultiTenant
ResourceId : schana02.gdl.englab.netapp.com\hana\MDC\R57
ResourceUid : MDC\R57
PluginName : hana
Host: schana02.gdl.englab.netapp.com
ResourceType: MultipleContainers
Protected : No
RunAsName :
ResourceSettings:
MountPaths :
DiscoveryType : Auto
IsAuthenticated : Yes
DatabaseName: MDC
SID : MT1
UserStoreKeys :
bXQxDY8049rvqv2jPtrmFNChT9CuhhNBSnsSJ9Fzo13LYquhwnlDknOd+QeJepEFFSIEX0AxR
FcYnQVmlRR5Ky2P3oi2vgEUrPqe0UoHkfBe/QgjDeeaIrBir4CNIiXZVwKFxOm0oLxXcf4Uluo
/amAhw==
FileBackupPath :
FileBackupPrefix: SnapCenter_
OSDBUser: root
TenantDatabaseNames : {}
TenantType : MultiTenant
ResourceId : schana02.gdl.englab.netapp.com\hana\MDC\MT1
ResourceUid : MDC\MT1
PluginName : hana
Host: schana02.gdl.englab.netapp.com
ResourceType: MultipleContainers
Protected : No
RunAsName :
ResourceSettings:
MountPaths :
DiscoveryType : Manual
IsAuthenticated : Not Applicable
DatabaseName : NonMDC_SN
SID : H01
UserStoreKeys:
aDAX85jqzWC0G9U7i7ohDgG1VxG7E8AxaUKyD2BeRnv+fF3sluc9aZDdPUyaWgJwQ5ZAAe0IPB
Y/l1PGkli2DgffnbhPjwu9fPg+nKhLErLyjXp26txx+CJJWHAniekIAsJxLdc9aUrcKO4Xm5N2
wdNgdQ==
FileBackupPath :
FileBackupPrefix : SnapCenter_
OSDBUser : user
ResourceId : schana02.gdl.englab.netapp.com\hana\H01

```

```
ResourceId    : H01
PluginName    : hana
Host : schana02.gdl.englab.netapp.com
ResourceType  : SingleContainer
Protected: No
RunAsName:
ResourceSettings :
MountPaths    :
DiscoveryType: Manual
IsAuthenticated : Not Applicable
```

Example 6: Listing all the resources of a specified resource type

```
Get-SmResources -PluginCode 'hana' -HostName
'schana02.gdl.englab.netapp.com' -UseKnownResources -ResourceType
'MultipleContainers' -DatabaseName 'R57'
```

This example lists all the resources of a specified resource type.

```
Completed Discovering Resources: Job Id [47]
DatabaseName    : R57
SID: R57
UserStoreKeys   :
FileBackupPath  :
FileBackupPrefix : SnapCenter_
OSDBUser       :
TenantDatabaseName :
TenantType      : MultiTenant
ResourceId      : schana02.gdl.englab.netapp.com\hana\MDC\R57
ResourceId      : MDC\R57
PluginName      : hana
Host           : schana02.gdl.englab.netapp.com
ResourceType    : MultipleContainers
Protected       : No
RunAsName       :
ResourceSettings :
MountPaths      :
DiscoveryType    : Auto
IsAuthenticated : No
```

Example 7: Trigger plug-in discovery and list the resources of specified host

```
Get-SmResources -PluginCode 'hana' -HostName  
'schana02.gdl.englab.netapp.com' -UseKnownResources:$false
```

This example syntax lists all resources of specified host.

```
Completed Discovering Resources: Job Id [21]  
DatabaseName: R57  
SID : R57  
UserStoreKeys :  
cjU3uItRwnENhBzpUwKFGMsPL+sWzrS0LwLvH+BVhDJEh+hxGEBF00tcKka6ElLUjyXEPDULjX  
dVqw6GmlkIr+UuIa4Zq+pnGKlt0zRbM6E1ZxE8k6r8HElNgHrjY3JUUsUvBS7RNQlOirVC6R2n9  
3Qfd9A==  
FileBackupPath :  
FileBackupPrefix: SnapCenter_  
OSDBUser: r57adm  
TenantDatabaseNames : {R57, TDB01, TDB02, TDB03}  
TenantType : MultiTenant  
ResourceId : schana02.gdl.englab.netapp.com\hana\MDC\R57  
ResourceUid : MDC\R57  
PluginName : hana  
Host: schana02.gdl.englab.netapp.com  
ResourceType: MultipleContainers  
Protected : No  
RunAsName :  
ResourceSettings:  
MountPaths :  
DiscoveryType : Auto  
IsAuthenticated : Yes  
DatabaseName: MDC  
SID : MT1  
UserStoreKeys :  
bXQxDY8049rvqv2jPtrmFNChT9CuhhNBSnsSJ9Fzo13LYquhwnlDknOd+QeJepEFFSIEX0AxR  
FcYnQVmlRR5Ky2P3oi2vgEUrPqe0UoHkfBe/QgjDeeaIrBir4CNIiXZVwKFxOm0oLxXcf4Uluo  
/amAhw==  
FileBackupPath :  
FileBackupPrefix: SnapCenter_  
OSDBUser: root  
TenantDatabaseNames : {}  
TenantType : MultiTenant  
ResourceId : schana02.gdl.englab.netapp.com\hana\MDC\MT1  
ResourceUid : MDC\MT1  
PluginName : hana  
Host: schana02.gdl.englab.netapp.com  
ResourceType: MultipleContainers  
Protected : No
```

```

RunAsName      :
ResourceSettings:
MountPaths     :
DiscoveryType   : Manual
IsAuthenticated : Not Applicable
DatabaseName    : NonMDC_SN
SID            : H01
UserStoreKeys:
aDAX85jqzWC0G9U7i7ohDgG1VxG7E8AxaUKyD2BeRnv+fF3sluc9aZDdPUyaWgJwQ5ZAAe0IPB
Y/11PGkli2DgffnbhPjwu9fPg+nKh1ErLyjXp26txx+CJJWHAniekIAsJxLdc9aUrcKO4Xm5N2
wdNgdQ==
FileBackupPath  :
FileBackupPrefix : SnapCenter_
OSDBUser       : user
ResourceId      : schana02.gdl.englab.netapp.com\hana\H01
ResourceUid     : H01
PluginName      : hana
Host            : schana02.gdl.englab.netapp.com
ResourceType    : SingleContainer
Protected       : No
RunAsName:
ResourceSettings :
MountPaths       :
DiscoveryType: Manual
IsAuthenticated  : Not Applicable

```

Example 8: Listing the resources for given sid and resource type

```

Get-SmResources -HostName 'schana02.gdl.englab.netapp.com' -PluginCode
HANA -ResourceType MultipleContainers -UseKnownresources -SID 'R57'
-DatabaseName 'R57'

```

This example lists all the resources of a specified host.

```

Completed Discovering Resources: Job Id [1692]
DatabaseName: R57
SID : R57
UserStoreKeys :
cjU3YuClvIPicEl3zD+B6o/fev9RR0vicLMY9+9iW3DGz0WN1WiAVHFywsnSJh3vlksKbR75f2
klpfhgkI27yTZPxuja5HqHsTQVrW6ZITfirN9hfM61sHeI38LSBNNaKLCsfU4kk6Okk6QzZL+R
Vthtlg==
FileBackupPath :
FileBackupPrefix: SnapCenter_
OSDBUser: r57adm
TenantDatabaseNames : {R57, TDB01, TDB02, TDB03}
TenantType : MultiTenant
ResourceId : schana02.gdl.englab.netapp.com\hana\MDC\R57
ResourceUid : MDC\R57
PluginName : hana
Host: schana02.gdl.englab.netapp.com
ResourceType: MultipleContainers
Protected : No
RunAsName :
ResourceSettings:
MountPaths :
DiscoveryType : Auto
IsAuthenticated : Yes

```

Example 8: Get details of the specified resource using AppObjectId

```

Get-SmResources -PluginCode 'SCSQL' -HostName
'schana02.gdl.englab.netapp.com' -AppResourceId 'MVA-RX200-
S13\SQLEXPRESS\DB16'

```

This example syntax displays the details of the resources (including cloud protection).

```

DBName: DB16
    DBVersion : 11.0.2100
    DBId : MVA-RX200-S13\SQLEXPRESS\DB16
    DBType: SQL Database
    Protected : Yes
    OverallStatus :
    CloudProtected: Yes
    CloudProtectedPolicies : sql_fulllog_backup_policy_daily

```

Example 9: Listing all Oracle Plug-in resources on a specified host

```
Get-SmResources -PluginCode 'SCO' -HostName 'R8092776CF4V1.HNK2.com'  
-UseKnownResources
```

This example lists all the SnapCenter Plug-in for Oracle resources on a specified host.

```
DBName: DB11  
    DBVersion : 19.0.0.0.0  
    DBId      : R8092776CF4V1.HNK2.com\DB11  
    DBType: Oracle Single Instance  
    Protected : No  
    OverallStatus : Not protected  
DBName: DB13  
    DBVersion : 19.0.0.0.0  
    DBId      : R8092776CF4V1.HNK2.com\DB13  
    DBType: Oracle Single Instance  
    Protected : No  
    OverallStatus : Not protected  
Name   : appVolLun  
Uid    : appVolLun  
Id: R8092776CF4V1.HNK2.com\appVolLun  
Type   : Application Volume  
Protected : No  
OverallStatus : Not protected  
Name   : appVol  
Uid    : appVol  
Id: R8092776CF4V1.HNK2.com\appVol  
Type   : Application Volume  
Protected : No  
OverallStatus : Not protected
```

Example 10: Listing all Oracle application volume resources on a specified host

```
Get-SmResources -PluginCode 'SCO' -HostName 'R8092776CF4V1.HNK2.com'  
-UseKnownResources -AppObjectType 'ApplicationVolume'
```

This example lists all the Oracle application volume resources on a specified host.

```
Name : appVolLun
Uid : appVolLun
Id: R8092776CF4V1.HNK2.com\appVolLun
Type : Application Volume
Protected : No
OverallStatus : Not protected
Name : appVol
Uid : appVol
Id: R8092776CF4V1.HNK2.com\appVol
Type : Application Volume
Protected : No
OverallStatus : Not protected
```

Example 11: Listing all Oracle database resources on a specified host

```
Get-SmResources -PluginCode 'SCO' -HostName 'R8092776CF4V1.HNK2.com'
-UseKnownResources -AppObjectType 'Database'
```

This example lists all the Oracle database resources on a specified host.

```
DBName: DB11
DBVersion : 19.0.0.0.0
DBId : R8092776CF4V1.HNK2.com\DB11
DBType: Oracle Single Instance
Protected : No
OverallStatus : Not protected
DBName: DB13
DBVersion : 19.0.0.0.0
DBId : R8092776CF4V1.HNK2.com\DB13
DBType: Oracle Single Instance
Protected : No
OverallStatus : Not protected
```

Example 12: Get Oracle Plug-in resources on a specified host and filter by resource name

```
Get-SmResources -PluginCode 'SCO' -HostName 'R8092776CF4V1.HNK2.com'
-UseKnownResources -AppObjectType 'ApplicationVolume' -ResourceName
'appVolLun'
```

This example gets the SnapCenter Plug-in for Oracle resources on a specified host and filters it by resource name

```
Name   : appVolLun
Uid    : appVolLun
Id: R8092776CF4V1.HNK2.com\appVolLun
Type   : Application Volume
Protected : No
OverallStatus : Not protected
```

Example 13: Trigger Discovery of Oracle Plug-in resources on a specified host and lists them

```
Get-SmResources -PluginCode 'SCO' -HostName 'R8092776CF4V1.HNK2.com'
```

This example triggers discovery of SnapCenter Plug-in for Oracle resources on a specified host and lists them.

```
Completed Discovering Resources: Job Id [3172]
```

```
DBName: DB11
```

```
DBVersion : 19.0.0.0.0
DBId      : R8092776CF4V1.HNK2.com\DB11
DBType: Oracle Single Instance
Protected : No
OverallStatus : Not protected
DBName: DB13
DBVersion : 19.0.0.0.0
DBId      : R8092776CF4V1.HNK2.com\DB13
DBType: Oracle Single Instance
Protected : No
OverallStatus : Not protected
Name      : appVolLun
Uid       : appVolLun
Id: R8092776CF4V1.HNK2.com\appVolLun
Type      : Application Volume
Protected : No
OverallStatus : Not protected
Name      : appVol
Uid       : appVol
Id: R8092776CF4V1.HNK2.com\appVol
Type      : Application Volume
Protected : No
OverallStatus : Not protected
```

Example 14: Trigger plug-in discovery and list the resources of specified host for UnixFileSystems

```
Get-SmResources -PluginName 'UnixFileSystems' -HostName  
'linuxfs.gdl.englab.netapp.com' -UseKnownResources:$false
```

This example triggers discovery of UnixFileSystems Plug-in on a specified host and lists them.

```
Completed Discovering Resources: Job Id [420]  
    ResourceName : /netapp/qtree1  
    ResourceId   :  
linuxfs.gdl.englab.netapp.com\UnixFileSystems\netapp/qtree1  
    ResourceUid  : /netapp/qtree1  
    PluginName   : UnixFileSystems  
    Host        : linuxfs.gdl.englab.netapp.com  
    ResourceType : Path  
    Protected    : Yes  
    RunAsName    :  
    ResourceSettings :  
    MountPaths   :  
    DiscoveryType : Auto  
    IsAuthenticated : Yes  
    ResourceName : /netapp/qtree2  
    ResourceId   :  
linuxfs.gdl.englab.netapp.com\UnixFileSystems\netapp/qtree2  
    ResourceUid  : /netapp/qtree2  
    PluginName   : UnixFileSystems  
    Host        : linuxfs.gdl.englab.netapp.com  
    ResourceType : Path  
    Protected    : Yes  
    RunAsName    :  
    ResourceSettings :  
    MountPaths   :  
    DiscoveryType : Auto  
    IsAuthenticated : Yes
```

Get-SmRestoreReport

Initiates a restore report.

Syntax

```
Get-SmRestoreReport [-JobId] <Int64> [-FromDateTime] <DateTime> [-
ToDateTime] <DateTime> [-Resource] <String> [-Plugin] <PluginCode>
[-HostName] <String>
```

Detailed Description

Initiates a restore report. The restore report tells you which resource was restored on which host and the job status. You can specify the time range for which you want this report. The default time range is the last 7 days. You can also query for restore information about an individual resource. For any integer value provided for date, value is taken as 1/1/0001 12:00 AM.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
JobId	To be deleted.	true	true (ByPropertyName)	
FromDateTime	Specifies that you want to get a restore report for restore jobs run between a specified day and time. This option provides the start date and time. You can specify the date and time using any date and time format string. For example, "2/2/2015 8:52PM". If the cmdlet is run from the remote computer, the output will be shown based on the SnapCenter Server time zone.	false	false	
ToDateTime	Specifies that you want to get a restore report for restore jobs run between a specified day and time. This option provides the end date and time. You can specify the date and time using any date and time format string. For example, "2/2/2015 8:52PM". If the cmdlet is run from the remote computer, the output will be shown based on the SnapCenter Server time zone.	false	false	
Resource	Provides the name of a specific resource for which you want to get a restore report.	false	true (ByPropertyName)	
Plugin	Specify the plug-in code to generate the report. For custom plug-ins, specify the custom plug-in name for example, hana, mysql.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
HostName	Specifies the name of the host on which the restore was taken.	false	true (ByPropertyName)	

Examples

Example 1: Getting a restore report

```
Get-SmRestoreReport
```

This example syntax gets a restore report.

```
SmJobId      : 2516
StartDateTime : 2/4/2015 1:09:15 PM
EndDateTime   : 2/4/2015 1:09:57 PM
Status: Completed
Resource      : SMCoreContracts.SmObject
RecoveryRequest :
PluginCode: SCO
PluginName: Oracle Database
PluginDisplayName : Oracle Database
SmJobId      : 2535
StartDateTime : 2/5/2015 6:02:19 AM
EndDateTime   : 2/5/2015 6:03:13 AM
Status: Completed
Resource      : SMCoreContracts.SmObject
RecoveryRequest :
PluginCode: SCC
PluginName: SAP HANA
PluginDisplayName : SAP HANA
```

Example 2: Getting a restore report for a specific resource

```
Get-SmRestoreReport -Resource TestDb3
```

This example syntax gets a report on restores performed for the given resource.

```
SmJobId      : 2516
StartDateTime : 2/4/2015 1:09:15 PM
EndDateTime   : 2/4/2015 1:09:57 PM
Status: Completed
Resource      : SMCoreContracts.SmObject
RecoveryRequest :
PluginCode: SCC
PluginName: SAP HANA
PluginDisplayName : SAP HANA
```

Example 3: Getting a restore report for a specific host

```
Get-SmRestoreReport -HostName SCSPR0019366001.gdl.mycompany.com
```

This example syntax gets a restore report for all resources on the given host.

```
SmJobId      : 2516
StartDateTime : 2/4/2015 1:09:15 PM
EndDateTime   : 2/4/2015 1:09:57 PM
Status: Completed
Resource      : SMCoreContracts.SmObject
RecoveryRequest :
PluginCode: SCO
PluginName: Oracle Database
PluginDisplayName : Oracle Database
SmJobId      : 2535
StartDateTime : 2/5/2015 6:02:19 AM
EndDateTime   : 2/5/2015 6:03:13 AM
Status: Completed
Resource      : SMCoreContracts.SmObject
RecoveryRequest :
PluginCode: SCC
PluginName: SAP HANA
PluginDisplayName : SAP HANA
```

Get-SmRole

Get information for one or more RBAC roles.

Syntax

```
Get-SmRole [-Name] <String>
```

Detailed Description

Get information about all the roles associated with SnapCenter. If you specify a specific role, you will return only information about the individual role. This information includes the role description, name.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Specifies the name of the role for which you want information. If you do not specify a role name, you will receive information for all available roles.	false	true (ByPropertyName)	

Examples

Example 1: Getting information about all roles

```
Get-SmRole
```

This example syntax retrieves the information about all SnapCenter roles.

Description : Overall administrator of SnapCenter system

Name: SnapCenterAdmin

Type: Administrator

Id : 1

Host:

UserName:

Passphrase :

Deleted : False

Auth: SMCoreContracts.SmAuth

IsClone : False

CloneLevel : 0

Description : Backup and Clone Viewer

Name: Backup and Clone Viewer

Type: Backup and Clone Viewer

Id : 7

Host:

UserName:

Passphrase :

Deleted : False

Auth: SMCoreContracts.SmAuth

IsClone : False

CloneLevel : 0

Description : App Backup and Clone Admin

Name: App Backup and Clone Admin

Type: App Backup and Clone Admin

Id : 8

Host:

UserName:

Passphrase :

Deleted : False

Auth: SMCoreContracts.SmAuth

IsClone : False

CloneLevel : 0

Description : Infrastructure Admin

Name: Infrastructure Admin

Type: Infrastructure Admin

Id : 9

Host:

UserName:

Passphrase :

Deleted : False

Auth: SMCoreContracts.SmAuth

IsClone : False

CloneLevel : 0

Example 2: Getting information about a specific role

```
Get-SmRole -Name "Infrastructure Admin"
```

This example syntax retrieves the information about the specified role.

```
Description : Infrastructure Admin
Name: Infrastructure Admin
Type: Infrastructure Admin
Id   : 9
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

Get-SmRoleAssignedPermission

Retrieves information about permissions assigned to a designated role.

Syntax

```
Get-SmRoleAssignedPermission [-RoleName] <String>
```

Detailed Description

Retrieves information about permissions assigned to a specified role. The information includes the permission name and its attributes. The attributes are Allow, Create, Read, Update, and Delete.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
RoleName	Specifies the name of the role for which you want permission and permission attribute information.	true	true (ByPropertyName)	

Examples

Example 1: Getting permissions assigned to a role

```
Get-SmRoleAssignedPermission -RoleName SnapCenterAdmin
```

This example syntax gets the permissions assigned to the specified role.

```
AttribCode : create
Name       : DataSet
Type       :
Id         : 1
Host       :
UserName    :
Passphrase  :
Deleted    : False
Auth       : SMCoreContracts.SmAuth
IsClone    : False
CloneLevel : 0
AttribCode : delete
Name       : DataSet
Type       :
Id         : 2
Host       :
UserName    :
Passphrase  :
Deleted    : False
Auth       : SMCoreContracts.SmAuth
IsClone    : False
CloneLevel : 0
AttribCode : read
Name       : DataSet
Type       :
Id         : 3
Host       :
UserName    :
Passphrase  :
Deleted    : False
Auth       : SMCoreContracts.SmAuth
IsClone    : False
CloneLevel : 0
AttribCode : update
Name       : DataSet
Type       :
Id         : 4
Host       :
UserName    :
```

```
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : create
Name      : Policy
Type      :
Id       : 5
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : delete
Name      : Policy
Type      :
Id       : 6
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : update
Name      : Policy
Type      :
Id       : 7
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name      : Policy
Type      :
Id       : 8
Host      :
UserName   :
Passphrase :
Deleted: False
```

```
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : create
Name       : Backup
Type       :
Id        : 9
Host       :
UserName    :
Passphrase  :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name       : Backup
Type       :
Id        : 10
Host       :
UserName    :
Passphrase  :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : delete
Name       : Backup
Type       :
Id        : 11
Host       :
UserName    :
Passphrase  :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : create
Name       : Host
Type       :
Id        : 13
Host       :
UserName    :
Passphrase  :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
```

```
CloneLevel : 0
AttribCode : delete
Name      : Host
Type      :
Id       : 14
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name      : Host
Type      :
Id       : 15
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : update
Name      : Host
Type      :
Id       : 16
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : create
Name      : StorageConnection
Type      :
Id       : 17
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : delete
```

```
Name      : StorageConnection
Type      :
Id       : 18
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name      : StorageConnection
Type      :
Id       : 19
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : update
Name      : StorageConnection
Type      :
Id       : 20
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : create
Name      : Clone
Type      :
Id       : 21
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : delete
Name      : Clone
Type      :
```

```
Id : 22
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name : Clone
Type :
Id : 23
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : update
Name : Clone
Type :
Id : 24
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : create
Name : Provision
Type :
Id : 25
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : delete
Name : Provision
Type :
Id : 26
Host :
```

```
UserName      :
Passphrase    :
Deleted: False
Auth         : SMCoreContracts.SmAuth
IsClone: False
CloneLevel   : 0
AttribCode   : read
Name         : Provision
Type         :
Id           : 27
Host         :
UserName      :
Passphrase    :
Deleted: False
Auth         : SMCoreContracts.SmAuth
IsClone: False
CloneLevel   : 0
AttribCode   : update
Name         : Provision
Type         :
Id           : 28
Host         :
UserName      :
Passphrase    :
Deleted: False
Auth         : SMCoreContracts.SmAuth
IsClone: False
CloneLevel   : 0
AttribCode   : update
Name         : Backup
Type         :
Id           : 45
Host         :
UserName      :
Passphrase    :
Deleted: False
Auth         : SMCoreContracts.SmAuth
IsClone: False
CloneLevel   : 0
AttribCode   : allow
Name         : DashBoard
Type         :
Id           : 51
Host         :
UserName      :
Passphrase    :
```

```
Deleted: False
Auth    : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : allow
Name     : Reports
Type     :
Id       : 52
Host     :
UserName :
Passphrase :
Deleted: False
Auth     : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : allow
Name     : Restore
Type     :
Id       : 53
Host     :
UserName :
Passphrase :
Deleted: False
Auth     : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : allow
Name     : Discovery
Type     :
Id       : 54
Host     :
UserName :
Passphrase :
Deleted: False
Auth     : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : allow
Name     : Plugin_Installation
Type     :
Id       : 58
Host     :
UserName :
Passphrase :
Deleted: False
Auth     : SMCoreContracts.SmAuth
```

```
IsClone: False
CloneLevel : 0
AttribCode : allow
Name      : Migration
Type      :
Id       : 59
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCOREContracts.SmAuth
IsClone: False
CloneLevel : 0
```

Get-SmRolePermissions

Retrieves permissions and associated permission attribute codes available in SnapCenter.

Syntax

```
Get-SmRolePermissions [-Name] <String>
```

Detailed Description

Retrieves permissions and associated permission attribute codes available in SnapCenter. If you specify a permission name, you receive attribute codes associated with that permission. If you do not specify a name, you retrieve all permissions available in SnapCenter.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Specifies the name of the Run As account that you want to get information about.	false	true (ByPropertyName)	

Examples

Example 1: Getting information about a specified permission

```
Get-SmRolePermissions -Name DataSet
```

This example syntax lists the information for the specified permission.

PermissionName PermissionCode

DataSet create
DataSet delete
DataSet read
DataSet update

Example 2: Getting a list of permissions available in SnapCenter

```
Get-SmRolePermissions
```

This example syntax displays permissions for all permissions in SnapCenter.

PermissionName PermissionCode

DataSet create
DataSet delete
DataSet read
DataSet update
Policy create
Policy delete
Policy update
Policy read
Backup create
Backup read
Backup delete
Host create
Host delete
Host read
Host update
StorageConnection create
StorageConnection delete
StorageConnection read
StorageConnection update
Clone create
Clone delete
Clone read
Clone update
Provision create
Provision delete
Provision read
Provision update
Backup update
DashBoard allow
Reports allow
Restore allow
Discovery allow
Plugin_Installation allow
Migration allow

Get-SmSMTPServer

Retrieves information about the SMTP server currently configured to send data protection job reports.

Syntax

```
Get-SmSMTPServer
```

Detailed Description

Retrieves information about the SMTP server currently configured to send data protection job reports. The cmdlet displays the name of the SMTP server, the name of the recipient to whom email messages are sent, and the name of the sender. There are no parameters for this cmdlet.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	------------	----------------	---------------

Examples

Example 1: Retrieving SMTP server configuration information

```
Get-SmSMTPServer
```

This example syntax retrieves information about the current SMTP server configuration for SnapCenter.

Get-SmSchedule

Retrieves the schedule information. This command migrates data from SnapManager to SnapCenter plug-in for SQL Server. (This command works only if there are schedules present for SQL Server in SnapManager.)

Syntax

```
Get-SmSchedule [-HostName] <String> [-DisableCurrentGenSchedule] <> [-PluginCode] <PluginCode> [-SMSBaseUrl] <String>
```

Detailed Description

Retrieve the schedule information based on the host name and the plug-in code.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName		true	true (ByPropertyName)	
DisableCurrentGenSchedule		false	true (ByPropertyName)	
PluginCode		true	true (ByPropertyName)	
SMSBaseUrl		false	true (ByPropertyName)	

Examples

- **Example : Retrieve the schedule information based on the host name and the plug-in code. -**

```
Get-SmSchedule -HostName windows2016 -PluginCode SCSQL
```

This example syntax retrieves the schedule information based on the host name and the plug-in code.

```
Schedule detail for the following Resources :  
*****
```

```
Windows2016\INSTANCE1\anul
```

```
Schedule Information :
```

```
*****
```

```
ScheduleStatus : Enabled
```

```
Schedule: Backup Schedule
```

```
BackupType : FullBackupAndLogBackup
```

```
TaskName: New2
```

```
ScheduleType: OneTime
```

```
SchedulerType : WINDOWS
```

```
StartTime : 9/13/2020 11:32:00 PM
```

```
EndTime :
```

```
DaysInterval:
```

```
DaysoftheMonth :
```

```
DaysOfTheWeek :
```

```
IntervalDuration:
```

```
MonthlyFrequency:
```

```
MonthsofTheYear :
```

```
RepeatTask_Every_Hour :
```

```
RepeatTask_Every_Mins :
```

```
SchedulerSQLInstance:
```

```
retention      : {SmPSSnapin.GetSmSchedule+Retention,
SmPSSnapin.GetSmSchedule+Retention,
    SmPSSnapin.GetSmSchedule+Retention}
verificationsettings: SmPSSnapin.GetSmSchedule+VerificationSettings
hasVerificationSettings : False
```

Retention Information :

BackupType : DATA
RetentionCount : 7
RetentionDays : 0

BackupType : LOG
RetentionCount : 0
RetentionDays : 7

BackupType : LOG_SNAPSHOT
RetentionCount : 8
RetentionDays : 0

Schedule detail for the following Resources :

Windows2016\INSTANCE1\anul

Schedule Information :

ScheduleStatus : Enabled
Schedule: Backup Schedule
BackupType : FullBackupAndLogBackup
TaskName: NEW6
ScheduleType: OneTime
SchedulerType : WINDOWS
StartTime : 9/14/2020 4:52:00 AM
EndTime :
DaysInterval:
DaysoftheMonth :
DaysOfTheWeek :
IntervalDuration:
MonthlyFrequency:
MonthsofTheYear :
RepeatTask_Every_Hour :
RepeatTask_Every_Mins :
SchedulerSQLInstance:
retention : {SmPSSnapin.GetSmSchedule+Retention,
SmPSSnapin.GetSmSchedule+Retention,

```

    SmPSSnapin.GetSmSchedule+Retention}
verificationsettings: SmPSSnapin.GetSmSchedule+VerificationSettings
hasVerificationSettings : False

Retention Information :
*****

BackupType : DATA
RetentionCount : 7
RetentionDays : 0

BackupType : LOG
RetentionCount : 0
RetentionDays : 7

BackupType : LOG_SNAPSHOT
RetentionCount : 8
RetentionDays : 0

*****
*****

Schedule detail for the following Resources :
*****

Windows2016\INSTANCE1\anul
Schedule Information :
*****

ScheduleStatus : Enabled
Schedule: Backup Schedule
BackupType : FullBackupAndLogBackup
TaskName: NEW7
ScheduleType: OneTime
SchedulerType : WINDOWS
StartTime : 9/14/2020 4:52:00 AM
EndTime :
DaysInterval:
DaysOfMonth :
DaysOfTheWeek :
IntervalDuration:
MonthlyFrequency:
MonthsofTheYear :
RepeatTask_Every_Hour :
RepeatTask_Every_Mins :
SchedulerSQLInstance:
retention : {SmPSSnapin.GetSmSchedule+Retention,
SmPSSnapin.GetSmSchedule+Retention,
SmPSSnapin.GetSmSchedule+Retention}
verificationsettings: SmPSSnapin.GetSmSchedule+VerificationSettings

```

```
hasVerificationSettings : False
```

```
Retention Information :
```

```
*****
```

```
BackupType : DATA
```

```
RetentionCount : 7
```

```
RetentionDays : 0
```

```
BackupType : LOG
```

```
RetentionCount : 0
```

```
RetentionDays : 7
```

```
BackupType : LOG_SNAPSHOT
```

```
RetentionCount : 8
```

```
RetentionDays : 0
```

```
*****
```

```
*****
```

Get-SmServerConfig

Retrieves information about the SnapCenter version currently configured.

Syntax

```
Get-SmServerConfig
```

Detailed Description

Retrieves information about the SnapCenter version currently configured.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	---------------	----------------	------------------

Examples

Example : Gets information about the SnapCenter version currently configured.

```
Get-SmServerConfig
```

This example syntax gets information about the SnapCenter version currently configured.

Get-SmSnapCenterVersion

Gets the SnapCenter Server version and build number.

Syntax

```
Get-SmSnapCenterVersion [-] <>
```

Detailed Description

Gets the SnapCenter Server version and build number.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	------------	----------------	---------------

Examples

Example 1: Get SnapCenter Server Version

```
Get-SmSnapCenterVersion
```

This example syntax gets the installed SnapCenter Server version and build number.

```
ServerVersion   : 4.5.0.6127
PluginVersion   :
ProductVersion  : 4.5
ProductName: SnapCenter Server 4.5
Result : SMCoreContracts.SMResult
TotalCount : 0
DisplayCount   : 0
Context:
Job: SMCoreContracts.SmJob
```

Get-SmStorageConnection

Retrieves all storage system connections.

Syntax

```
Get-SmStorageConnection [-Storage] <String> [-StorageType] <String> [-  
AzureNetAppAccountId] <bigint(20)>
```

Detailed Description

Retrieves information about available storage system connections. You can get information about a specified storage system, or about all of them.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Storage		false	true (ByPropertyName)	
StorageType	Specifies storage type. Valid values are DataOntap and AzureNetAppAccount.	false	true (ByPropertyName)	
AzureNetAppAccount Id	Specifies Azure NetApp Account ID.	false	true (ByPropertyName)	

Examples

Example 1: Getting storage system connections for a specified storage system

```
Get-SmStorageConnection -SVM 172.17.168.13
```

This example syntax retrieves information for a specified storage system connection.

```
UserName: vsadmin
Password:
Port: 80
TransportType : Http
ModifyTime : 1/1/0001 12:00:00 AM
Mode:
OntapiMajorVersion :
OntapiMinorVersion :
Version : NetApp Release 8.2.2X33 Cluster-Mode: Fri Aug 22 06:04:17 PDT
2014
StorageSystemOSType : DataOntap
Passphrase :
Id : 5
Timeout : 60
Uuid:
OperationContext:
PreferredIpAddress :
Aliases : {}
SmIPAddresses : {SMCoreContracts.SmIPAddress,
SMCoreContracts.SmIPAddress, SMCoreContracts.SmIPAddress,
SMCoreContracts.SmIPAddress...}
IPAddresses : {172.17.168.13, 172.17.168.13, 172.17.168.13,
172.17.168.13...}
Name: mva-dev-3270-02-d1.lab.netapp.com
IsResolved : True
IsValid : True
Identity: mva-dev-3270-02-d1.lab.netapp.com
```

Example 2: Getting storage system connections for all available storage systems

```
Get-SmStorageConnection
```

This example syntax gets information about all available storage system connections.

```
UserName: vsadmin
Password:
Port: 80
TransportType : Http
ModifyTime : 1/1/0001 12:00:00 AM
Mode:
OntapiMajorVersion :
OntapiMinorVersion :
Version :
```

```

StorageSystemOSType :
Passphrase :
Id : 1
Timeout : 60
Uuid:
OperationContext:
PreferredIpAddress :
Aliases : {}
SmIPAddresses : {SMCoreContracts.SmIPAddress,
SMCoreContracts.SmIPAddress, SMCoreContracts.SmIPAddress,
SMCoreContracts.SmIPAddress...}
IPAddresses : {172.17.124.165, 172.17.124.165, 172.17.124.165,
172.17.124.165...}
Name: neeraj_vs1
IsResolved : True
IsValid : True
Identity: neeraj_vs1
UserName: vsadmin
Password:
Port: 80
TransportType : Http
ModifyTime : 1/1/0001 12:00:00 AM
Mode:
OntapiMajorVersion :
OntapiMinorVersion :
Version :
StorageSystemOSType :
Passphrase :
Id : 2
Timeout :
Uuid:
OperationContext:
PreferredIpAddress :
Aliases : {}
SmIPAddresses : {SMCoreContracts.SmIPAddress,
SMCoreContracts.SmIPAddress, SMCoreContracts.SmIPAddress,
SMCoreContracts.SmIPAddress...}
IPAddresses : {10.225.13.49, 10.225.13.49, 10.225.13.49, 10.225.13.49...}
Name: rtp-rr1-d2.gdl.mycompany.com
IsResolved : True
IsValid : True
Identity: rtp-rr1-d2.gdl.mycompany.com

```

Example 3: Getting Azure NetApp Account with specified ID

```
Get-SmStorageConnection -StorageType AzureNetAppAccount
-StorageConnectionId 3
```

This example gets information about Azure NetApp Account with specified Storage connection Id.

```
StorageConnectionId : 3
SubscriptionId       : 398e471c-3b42-4ae7-9b59-ce5bb5e6108d
NetAppAccountName    : poojar_SCSHANA_Account
ResourceGroupName    : poojar
StorageOSType        : AzureNetAppAccount
CredentialName       : HCLMain
CredentialId         : 7
ModifyTime           : 10/18/2023 10:15:48 AM
ModifyTimeTicks      : 638332209480000000
StorageBaseId        : 3
Location             : eastus2
```

Get-SmTrustedDomains

Get the trusted domains details of the specified domain registered with SnapCenter Server.

Syntax

```
Get-SmTrustedDomains [-ParentDomainName] <String> [-Credential]
<PSCredential>
```

Detailed Description

Get the trusted domains of the specified domain.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ParentDomainName	NETBIOS Name of the registered domain.	true	true (ByPropertyName)	
Credential	Credentials of any user in the registered domain.	true	true (ByPropertyName)	

Examples

Example 1: Get the trusted domains of the specified domain registered with SnapCenter Server.

```
Get-SmTrustedDomains -ParentDomainName mva -Credential mva\administrator
```

```
Successfully discovered the trusted domains of the specified domain mva.
Id : 1
Name      : mva
DomainFQDN : mva.gdl.englab.netapp.com
DCHostIPAddresses :
TrustedDomains :
gdl.englab.netapp.com,GDL,nb.englab.netapp.com,NB,ict.englab.netapp.com,ICT,
wbu.englab.netapp.com,WBU,eng.netapp.com,ENG,nane.englab.netapp.com,NANE,
svl.englab.netapp.com,SVL
CreatedOn   : 4/11/2018 10:06:34 PM
ModifiedOn  : 4/20/2018 3:26:40 AM
```

Get-SmUserAssignedPermission

Retrieves information about the permissions associated with a specified user.

Syntax

```
Get-SmUserAssignedPermission [-Name] <String>
```

Detailed Description

Retrieves information about the permissions associated with a specified user.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Names the domain\user about whom you want to retrieve permission information.	true	true (ByPropertyName)	

Examples

Example 1: Getting permissions associated with a user

```
Get-SmUserAssignedPermission -Name sddev\administrator
```

This example syntax displays the permissions associated with the specified user.

```
AttribCode : create
Name       : Backup
Type      :
Id        : 9
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name       : Backup
Type      :
Id        : 10
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name       : Host
Type      :
Id        : 15
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name       : DataSet
Type      :
Id        : 3
Host      :
UserName   :
```

```
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name      : Provision
Type      :
Id       : 27
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name      : Clone
Type      :
Id       : 23
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : allow
Name      : Discovery
Type      :
Id       : 54
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : allow
Name      : Restore
Type      :
Id       : 53
Host      :
UserName   :
Passphrase :
Deleted: False
```

```
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name       : Backup
Type       :
Id         : 10
Host       :
UserName    :
Passphrase  :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : create
Name       : Host
Type       :
Id         : 13
Host       :
UserName    :
Passphrase  :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : delete
Name       : Host
Type       :
Id         : 14
Host       :
UserName    :
Passphrase  :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name       : Host
Type       :
Id         : 15
Host       :
UserName    :
Passphrase  :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
```

```
CloneLevel : 0
AttribCode : update
Name      : Host
Type      :
Id       : 16
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name      : DataSet
Type      :
Id       : 3
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name      : Policy
Type      :
Id       : 8
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : create
Name      : Provision
Type      :
Id       : 25
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : delete
```

```
Name      : Provision
Type      :
Id       : 26
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name      : Provision
Type      :
Id       : 27
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : update
Name      : Provision
Type      :
Id       : 28
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name      : Clone
Type      :
Id       : 23
Host      :
UserName   :
Passphrase :
Deleted: False
Auth      : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : create
Name      : StorageConnection
Type      :
```

```
Id : 17
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : delete
Name : StorageConnection
Type :
Id : 18
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : read
Name : StorageConnection
Type :
Id : 19
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : update
Name : StorageConnection
Type :
Id : 20
Host :
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
AttribCode : allow
Name : DashBoard
Type :
Id : 51
Host :
```

```
UserName      :
Passphrase    :
Deleted: False
Auth         : SMCoreContracts.SmAuth
IsClone: False
CloneLevel   : 0
AttribCode    : allow
Name         : Discovery
Type         :
Id           : 54
Host         :
UserName      :
Passphrase    :
Deleted: False
Auth         : SMCoreContracts.SmAuth
IsClone: False
CloneLevel   : 0
AttribCode    : allow
Name         : Plugin_Installation
Type         :
Id           : 58
Host         :
UserName      :
Passphrase    :
Deleted: False
Auth         : SMCoreContracts.SmAuth
IsClone: False
CloneLevel   : 0
AttribCode    : allow
Name         : Reports
Type         :
Id           : 52
Host         :
UserName      :
Passphrase    :
Deleted: False
Auth         : SMCoreContracts.SmAuth
IsClone: False
CloneLevel   : 0
```

Get-SmUsersAndGroups

Gets information of the user and the group.

Syntax

```
Get-SmUsersAndGroups [-Type] <FilterType>
```

Detailed Description

Valid session is required to get the information like, user, roles, and domain details.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Type		false	false	

Examples

Example 1: Get the user and the group details

```
Get-SmUsersAndGroups -Type ALL
```

This example syntax gets the information of the user and the group.

```
PS C:\> Get-SmUsersAndGroups -Type ALL
```

```
Name           Type Roles           Domain
----           -
administrator  User SnapCenterAdmin exchange1
```

Get-SmVerificationServer

Gets information about existing verification servers.

Syntax

```
Get-SmVerificationServer [-Names] <String>
```

Detailed Description

Gets information about existing verification servers. You can get information about specific servers, or all SnapCenter verification servers.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Names	Specifies the names of the verification server about which you want to get information. If you omit the Names parameter, you get information about all SnapCenter verification servers.	false	true (ByPropertyName)	

Examples

Example 1: Getting information about a specified verification server

```
Get-SmVerificationServer -Names mva-s51, mva-s51/instance1
```

This example syntax gets information about a specified verification server.

```
Name: MVA-S51
HostName: MVA-S51.mva.gdl.mycompany.com
PlugIn : SnapManager for SQL
UseDriveLetterIfAvail : True
DefaultMountPointFolder : c:\abc
MaxJobCount : 1
Description :
EndpointURI : http://localhost:809/SqlManagementService
PluginVersion :
Name: mva-s51/instance1
HostName: MVA-S51.mva.gdl.mycompany.com
PlugIn : SnapManager for SQL
UseDriveLetterIfAvail : True
DefaultMountPointFolder : c:\temp
MaxJobCount : 1
Description :
EndpointURI : http://localhost:809/SqlManagementService
PluginVersion :
```

Example 2: Getting information about all SnapCenter verification servers

```
Get-SmVerificationServer
```

This example syntax gets information about all available verification servers.

```

Name: MVA-S51
HostName: MVA-S51.mva.gdl.mycompany.com
PlugIn : SnapManager for SQL
UseDriveLetterIfAvail : True
DefaultMountPointFolder : c:\abc
MaxJobCount : 1
Description :
EndpointURI : http://localhost:809/SqlManagementService
PluginVersion :
Name: MVA-S57-VM2
HostName: MVA-S57-VM2.mva.gdl.mycompany.com
PlugIn : SnapManager for SQL
UseDriveLetterIfAvail : True
DefaultMountPointFolder : c:\temp
MaxJobCount : 1
Description :
EndpointURI :
PluginVersion :
Name: MVA-S51\MTSHASTA
HostName: MVA-S51.mva.gdl.mycompany.com
PlugIn : SnapManager for SQL
UseDriveLetterIfAvail : True
DefaultMountPointFolder : c:\temp
MaxJobCount : 1
Description :
EndpointURI : http://localhost:809/SqlManagementService
PluginVersion :
Name: mva-s51/instance1
HostName: MVA-S51.mva.gdl.mycompany.com
PlugIn : SnapManager for SQL
UseDriveLetterIfAvail : True
DefaultMountPointFolder : c:\temp
MaxJobCount : 1
Description :
EndpointURI : http://localhost:809/SqlManagementService
PluginVersion :

```

Install-SmHostPackage

Installs or upgrades a host plug-in package on one or more hosts.

Syntax

```
Install-SmHostPackage [-HostNames] <String> [-PluginCodes]
<UploadedPluginCode> [-PluginVersions] <Hashtable> [-InstallPath]
<String> [-SkipPreinstallChecks] <SwitchParameter> [-GMSAName]
<String> [-Force] <SwitchParameter>
```

Detailed Description

Installs or upgrades a host plug-in package on one or more hosts. When specifying multiple hosts, all hosts must have the same OS.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostNames	Specifies the hosts on which you want to install or upgrade the plug-in. You can specify one host, or multiple, comma-separated host names. Host names must be entered using the format -HostNames @"hostname") when installing to a single host, or -HostNames @"hostname1", "hostname2") when installing to multiple hosts. You can specify the hostname using either the host FQDN or IP address.	true	true (ByPropertyName)	
PluginCodes	Specifies the code for one or more plug-ins in the packages that you want to install. The following values are valid: SCSQL, SCO, SCW, SCE and hana. For custom plug-ins, the value is the custom plug-in name. For example "CustomPlugin1". You can use a comma-separated list of plug-in codes to install multiple plug-ins.	true	true (ByPropertyName)	
PluginVersions	Specifies in a hash table the custom plug-in name and the version to install. The PluginVersions parameter uses the format @{"customplugin" = "4.0"}	false	true (ByPropertyName)	
InstallPath	Specifies the plug-in installation path, if the path different from the default.	false	true (ByPropertyName)	
SkipPreinstallChecks	Specifies that installation prechecks will not be triggered.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
GMSAName	Specifies that group Managed Service Account (gMSA) name will be used to run the plug-in services.	false	true (ByPropertyName)	
Force	Internal switch.	false	true (ByPropertyName)	

Examples

Example 1: Installing SnapCenter Plug-in for Microsoft SQL Server and SnapCenter Plug-in for Microsoft Windows on a Windows host

```
Install-SmHostPackage -HostNames @"host2012r2.mycompany.com"
-PluginCodes SCSQL,SCW
```

This example syntax installs SnapCenter Plug-in for Microsoft SQL Server and SnapCenter Plug-in for Windows on the specified host.

Example 2: Installing SnapCenter Plug-in for Microsoft SQL Server and SnapCenter Plug-in for Microsoft Windows on multiple hosts

```
Install-SmHostPackage -HostNames @"sql-1.mycompany.com", "sql-
2.mycompany.com" -PluginCodes SCSQL,SCW
```

This example syntax installs SnapCenter Plug-in for Microsoft SQL Server and SnapCenter Plug-in for Microsoft Windows on multiple hosts.

Example 3: Installing a custom plug-in with SnapCenter Plug-in for Oracle and SnapCenter Plug-in for Unix on a Linux host

```
Install-SmHostPackage -HostNames("scspr0098708001.englab.mycompany.com")
-PluginCodes CustomPlugin1,SCO -InstallPath /opt/NetApp/snapcenter/
-PluginVersions @{"customplugin1" = "2.0"}
```

This example syntax installs a custom plug-in along with SnapCenter Plug-in for Oracle and SnapCenter Plug-in for Unix on a Linux host.

Example 4: Installing SnapCenter Plug-in for Microsoft Exchange Server

```
Install-SmHostPackage -HostNames Exchange2016DAG -PluginCodes SCE,SCW
-Verbose
```

This example syntax installs SnapCenter Plug-in for Microsoft Exchange Server on the specified host.

Example 5: Installing SnapCenter Plug-in for SAP HANA Database on the same Windows host

```
Install-SmHostPackage -HostNames 'Windows.Host.lab.com' -PluginCodes  
hana,SCW
```

This example syntax installs the SnapCenter Plug-in for SAP HANA Database on the same host where SnapCenter Server is installed.

Example 6: Installing SnapCenter Plug-in for SAP HANA database on a remote host

```
Install-SmHostPackage -HostNames 'Host.fqdn.lab.com' -PluginCodes hana
```

This example syntax installs the SnapCenter Plug-in for SAP HANA Database on the specified remote host (Windows and Linux).

Example 7: Installing SnapCenter Plug-in for Microsoft SQL Server and SnapCenter Plug-in for Microsoft Windows on a Windows host to run with group Managed Service Account (gMSA)

```
Install-SmHostPackage -HostNames 'host2012r2.NewDomain.com' -PluginCodes  
SCSQL,SCW -GMSAName 'NewDomain\gMSAName$'
```

This example syntax installs SnapCenter Plug-in for Microsoft SQL Server and SnapCenter Plug-in for Windows to run with the mentioned group Managed Service Account (gMSA) name on the specified host.

Example 8: Installing SnapCenter Plug-in for Oracle Database on a AIX host

```
Install-SmHostPackage -HostNames 'aix207-193.gdl.englab.netapp.com'  
-PluginCodes SCO
```

This example syntax installs the SnapCenter Plug-in for Oracle Database on the specified AIX host.

Example 9: Installing SnapCenter Plug-in for Db2 on a AIX host

```
Install-SmHostPackage -HostNames 'aix207-193.gdl.englab.netapp.com'  
-PluginCodes DB2
```

This example syntax installs the SnapCenter Plug-in for Db2 Database on the specified AIX host.

Invoke-DiagnosticLogCollection

Gets SnapCenter log files.

Syntax

```
Invoke-DiagnosticLogCollection [-SnapCenter] <> [-Hosts] <String> [-svms] <String> [-vcenter] <String> [-joblogs] <Int64> [-Cluster] <String>
```

Detailed Description

Gets SnapCenter log files. Log files are returned in a .zip file. You can retrieve all SnapCenter logs, Svms, Vcenter, Cluster or logs for a individual plug-in or SnapCenter instance. You can also get logs for a specified job.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
SnapCenter		false	true (ByPropertyName)	
Hosts		false	true (ByPropertyName)	
svms		false	true (ByPropertyName)	
vcenter		false	true (ByPropertyName)	
joblogs		false	true (ByPropertyName)	
Cluster		false	true (ByPropertyName)	

Examples

Example 1: Retrieving all logs

```
Invoke-DiagnosticLogCollection -SnapCenter
```

This example syntax retrieves all log files.

Example 2: Retrieving logs for a designated jobs

```
Invoke-DiagnosticLogCollection -Joblogs 1234,1235
```

This example syntax retrieves logs for job ID 1234 ad 1235.

Example 3: Retrieving Cluster logs

```
Invoke-DiagnosticLogCollection -Cluster host123
```

This example syntax retrieves all cluster node logs.

Example 4: Retrieving Hosts logs

```
Invoke-DiagnosticLogCollection -Hosts hostname1,hostname2
```

This example syntax retrieves all the hosts server,plugin and config logs.

Example 5: Retrieving svms logs

```
Invoke-DiagnosticLogCollection -svms Vserver1,Vserver2
```

This example syntax retrieves all the vserver logs.

Invoke-SCVOVAMigration

Migrates SCV to the virtual appliance.

Syntax

```
Invoke-SCVOVAMigration [-SourceSCVHost] <String> [-  
DestinationSCVOVAHost] <String> [-OVACredential] <String> [-  
ByPassValidationCheck] <> [-Overwrite] <> [-  
ContinueMigrationOnStorageError] <> [-ScheduleOffsetTime] <String>
```

Detailed Description

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
SourceSCVHost	The IP or hostname of the SCV host that will be migrated to the NDB host	true	false	
DestinationSCVOVAHost	The IP or hostname of the destination NDB host that the SCV host will be migrated to	true	false	

Name	Description	Required ?	Pipeline Input	Default Value
OVACredential	The name of the Run As credentials to use for connecting to the OVA. These Run As credentials must be created on the SnapCenter Server.	true	false	
ByPassValidationCheck	Skip validation that checks if the source SCV host is registered to the same vCenter as the destination NDB host.	false	false	
Overwrite	If enabled, the MySQL database on the NDB host is completely overwritten with the migrated metadata from the source SCV host. All existing metadata on the NDB host, with the exception of storage connections, is deleted. This parameter is recommended for large scale setups.	false	false	
ContinueMigrationOnStorageError	If enabled, migration continues if there are any errors while migrating storage systems. After migration, you must resolve all storage migration errors. Refer to documentation.	false	false	
ScheduleOffsetTime	Use this parameter if the source SCV host and the destination NDB host are in different time zones. Value should be a positive or negative time offset to adjust scheduled backup run times. Specify time difference in the format hh:mm:ss, such as 06:00:00, or -06:00:00 for a negative value.	false	false	

Examples

Example 1: Only required parameters

```
invoke-SCVOVAMigration -SourceSCVHost 10.225.12.187
-DestinationSCVOVAHost 10.225.43.91 -OVACredential ova
```

Example 2: Including optional parameters

```
invoke-SCVOVAMigration -SourceSCVHost 10.225.12.187
-DestinationSCVOVAHost 10.225.43.91 -OVACredential ova
-ByPassValidationCheck -Overwrite -ContinueMigrationOnStorageError
-ScheduleOffsetTime 06:00:00
```

This example includes the use of all optional parameters. See migration help for information on these parameters.

Invoke-SmBackupMigration

Migrates archived backups from SnapManager for Microsoft SQL Server to SnapCenter Plug-in for SQL Server.

Syntax

```
Invoke-SmBackupMigration [-HostName] <String> [-PluginCode]
<PluginCode> [-SMSBaseUrl] <String>
```

Detailed Description

Invokes the operation of migrating archived backups from SnapManager for Microsoft SQL Server to SnapCenter Plug-in for SQL Server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName		true	true (ByPropertyName)	
PluginCode		true	true (ByPropertyName)	
SMSBaseUrl		false	true (ByPropertyName)	

Examples

Example : Migrates archived backups from SnapManager to SnapCenter Plug-in for Microsoft SQL Server

```
Invoke-SmBackupMigration -HostName
windows2016.smsqlqa3.gdl.englab.netapp.com -PluginCode SCSQL
```

This example syntax invokes the operation of migrating archived backups from SnapManager for Microsoft SQL Server to SnapCenter Plug-in for SQL Server.

Invoke-SmBackupVerification

Initiates a verification job. [This command is being deprecated in Snapcenter 4.4 and the support to the command will be stopped in future releases.]

Syntax

```
Invoke-SmBackupVerification [-DatasetName] <String> [-  
VerificationPolicy] <String> [-BackupPolicies] <String> [-  
ScheduleOnly] <> [-SchedulerCredentialName] <String> [-BackupID]  
<String> [-NumBackups] <Int32> [-Auth] <String> [-IsScheduled]  
<Boolean> [-ClusterName] <String> [-SMSBaseUrl] <String> [-IsNLBHost]  
<Boolean> [-ScheduleName] <String> [-Guid1] <String> [-Guid2]  
<String> [-ScheduleType] <String> [-BackupScheduleType] <String>
```

Detailed Description

Initiates a verification job by specifying the dataset backup you want to verify and the verification policy for the operation. When you start a verification job, the Snapshot copy you specify is mounted. The mount operation creates a clone and the cloned database is attached to the verification server you specified in the verification policy. DBCC checkdb is run and any error are recorded for that particular backup. Once verification has finished, the clone database is deleted and the Snapshot copy is unmounted.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
DatasetName	Specifies the dataset name for the backups you want to verify. You can use the verification policy and the backup policy to govern how many and what kind of dataset backups you want to verify.	true	false	
VerificationPolicy	Specifies the verification policy you want to use during backup verification. The verification policy is used to provide scheduling, replication pre-and post script information, and DBCC CHECK options. A verification policy is required for every verification job.	true	false	
BackupPolicies	Specifies one or more backup policies to select the backups to be verified. For example, if you have a Daily, a Weekly, and a Monthly backup policy attached to a dataset. You can specify Monthly, to just verify the monthly backups.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
ScheduleOnly	Indicates that you want to schedule verification jobs for the future, rather than run one now. The scheduling information is in the verification policy you specified with the VerificationPolicy parameter.	false	true (ByPropertyName)	
SchedulerCredentialName		false	true (ByPropertyName)	
BackupID	Specifies a backup ID. This parameter allows you to verify specific backups, rather than a group of backups created for a given dataset. If you use this parameter, you do not need to provide the DatasetName.	false	false	
NumBackups	Indicates the number of backups you want to verify for a given dataset. If provided, this parameter overrides the verification policy settings. This allows to you run quick verification checks, without altering the verification policy.	false	false	
Auth	Provides authorization credentials to run this verification job. Authorization credentials allows you to provide different credentials to run verification operations. You want to provide these credentials when your original PowerShell session does not have sufficient RBAC permissions to run the desired operation.	false	false	
IsScheduled	This is for internal use only. This switch parameter indicates that the verification job has been invoked by a schedule.	false	false	
ClusterName	This is for internal use only. This parameter identifies the cluster host name for which the verification job is scheduled.	false	false	
SMSBaseUrl	This is for internal use only. This parameter identifies the SnapCenter-based URL.	false	false	
IsNLBHost	Internal switch that indicates whether this host is part of Network Load Balancing.	false	false	

Name	Description	Required ?	Pipeline Input	Default Value
ScheduleName	Specifies the name of the schedule you want to use for performing deferred verification jobs.	false	false	
Guid1		false	false	
Guid2		false	false	
ScheduleType		false	false	
BackupScheduleType		false	false	

Examples

Example 1: Verifying backups from a specified backup policy

```
Invoke-SmBackupVerification -DatasetName test -VerificationPolicy verifp
-BackupPolicies backup -Verbose
```

This example syntax verifies backups created by a specific policy.

```
PS C:\Software> Invoke-SmBackupVerification -DatasetName test
-VerificationPolicy verifp -BackupPolicies backup -Verbose
VERBOSE: Start Invoke-SmBackupVerification
VERBOSE: ProcessRecord Invoke-SmBackupVerificaition - Begin
VERBOSE: ProcessRecord Invoke-SmBackupVerificaition - End
VERBOSE: Invoke-SmBackupVerification ended successfully.
```

Example 2: Verifying one backup using a backup ID

```
Invoke-SmBackupVerification -DatasetName test -BackupID 109
-VerificationPolicy verifp -Verbose
```

This example syntax verifies backups using a specific backup ID.

```
VERBOSE: Start Invoke-SmBackupVerification
VERBOSE: ProcessRecord Invoke-SmBackupVerificaition - Begin
VERBOSE: ProcessRecord Invoke-SmBackupVerificaition - End
VERBOSE: Invoke-SmBackupVerification ended successfully.
```

Example 3: Scheduling a backup verification

```
Invoke-SmBackupVerification -DatasetName test -VerificationPolicy verifp  
-BackupPolicies backup -ScheduleOnly -SchedulerRunAsName mvawin -Verbose
```

This example syntax schedules a backup verification job for a future time.

```
VERBOSE: Start Invoke-SmBackupVerification  
VERBOSE: ProcessRecord Invoke-SmBackupVerificaiton - Begin  
VERBOSE: ProcessRecord Invoke-SmBackupVerificaiton - End  
VERBOSE: Invoke-SmBackupVerification ended successfully.
```

Example 4: Running a verification job with alternate authentication credentials

```
Invoke-SmBackupVerification -DatasetName test -VerificationPolicy verifp  
-BackupPolicies backup -Auth mvawin
```

This example syntax runs a verification job with alternate authentication credentials.

Example 5: Verifying your most recent backups

```
Invoke-SmBackupVerification -DatasetName test -VerificationPolicy verifp
```

This example syntax verifies your most recent backups.

Example 6: Overwriting the number of backups to be verified in verification policy

```
Invoke-SmBackupVerification -DatasetName test -VerificationPolicy verifp  
-BackupPolicies backup -NumBackups 1
```

This example syntax overwrites the verification policy specified number of backups to be verified.

Invoke-SmConfigureResources

Moves an existing Microsoft SQL Server database from a local disk to a NetApp LUN.

Syntax

```
Invoke-SmConfigureResources [-Resources] <Hashtable[]> [-DataPath]
<String> [-LogPath] <String> [-Files] <Hashtable[]> [-DeleteOriginal]
<> [-PluginCode] <PluginCode> [-DBCC_NOINDEX] <> [-
DBCC_ALL_ERRORMSGs] <> [-DBCC_NO_INFOMSGs] <> [-DBCC_TABLOCK] <> [-
DBCC_PHYSICALONLY] <> [-UpdateTableStatsBeforeDetach] <> [-
RUnDBCCBeforeMigration] <> [-RunDBCCAfterMigration] <>
```

Detailed Description

Moves an existing Microsoft SQL Server database from a local disk to a NetApp LUN. This cmdlet moves and configures either system or user databases for the following configurations:- Configuration of databases on standalone SQL server instances- Configuration of Availability Group SQL databases.- Configuration of SQL Failover Cluster Instance databases.In an Availability Group, you must run this cmdlet separately on both the primary and secondary nodes to ensure databases are moved for all nodes.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Resources	Specifies the resources, in a hashtable, including host, type, name, files, and destination.Host indicates the name of the host from which the database is being moved.Type is the type of database being moved. The type is SQLDatabase.	true	true (ByValue)	
DataPath	Specifies the destination disk path for database data files to be moved.	false	true (ByValue)	
LogPath	Specifies the destination path to which all the database log files will be moved.	false	true (ByValue)	
Files	Specifies the logical name of the database file and the destination path to which the file will be moved.	false	true (ByValue)	
DeleteOriginal	Specifies that all the database files are deleted from the source location.	false	true (ByValue)	
PluginCode	Specifies the plug-in code of the destination host. The valid code is SMSQL.	true	true (ByValue)	
DBCC_NOINDEX		false	false	
DBCC_ALL_ERROR MSGS		false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
DBCC_NO_INFOMSGS		false	true (ByPropertyName)	
DBCC_TABLOCK		false	true (ByPropertyName)	
DBCC_PHYSICALONLY		false	true (ByPropertyName)	
UpdateTableStatsBeforeDetach		false	true (ByPropertyName)	
RUnDBCCBeforeMigration		false	true (ByPropertyName)	
RunDBCCAfterMigration		false	true (ByPropertyName)	

Examples

Example 1: Moving a single database at the database level

```
Invoke-SmConfigureResources -Resources
@{"Host"="scspr0088723007";"Type"="SQL
Database";"Name"="scspr0088723007\INST1\d1"} -DataPath G:\ -Logpath G:\
-PluginCode SMSQL
```

Example 2: Moving multiple databases at the database level

```
Invoke-SmConfigureResources -Resources @{"Host"="nfs1";"Type"="SQL
Database";"Name"="nfs1\SQL12INST1\newnfs"},@{"Host"="nfs1";"Type"="SQL
Database";"Name"="nfs1\SQL12INST1\chk1"} -DataPath E:\ -LogPath E:\
-PluginCode SMSQL
```

Example 3: Moving a single database at the file level

```
Invoke-SmConfigureResources -Resources
@{"Host"="nfs1";"Type"="SQLDatabase";"Name"="nfs1\SQL12INST1\new1";"Files"
=@{"LogicalName"="new1";"Destination"="E:\"},@{"LogicalName"="new1_log";"D
estination"="E:\"},@{"LogicalName"="f";"Destination"="E:\"}}
-DeleteOriginal -PluginCode SMSQL
```

This example syntax moves a single database from on disk to another.

Example 4: Moving multiple databases at the file level

```
Invoke-SmConfigureResources -Resources
@{"Host"="nfs1";"Type"="SQLDatabase";"Name"="nfs1\SQL12INST1\newnfs";"Files"=@{"LogicalName"="newnfs";"Destination"="F:\"},@{"LogicalName"="newnfs_log";"Destination"="E:\"}},@{"Host"="nfs1";"Type"="SQLDatabase";"Name"="nfs1\SQL12INST1\chk1";"Files"=@{"LogicalName"="chk1";"Destination"="F:\"},@{"LogicalName"="chk1_log";"Destination"="F:\"}} -DeleteOriginal -PluginCode SMSQL
```

This example syntax moves multiple database files from one disk to another.

Example 5: Moving a database in a failover cluster instance

```
Invoke-SmConfigureResources -Resources
@{"Host"="Host1";"Type"="SQLDatabase";"Name"="Host1\DB1";"Files"=@{"LogicalName"="DB1";"Destination"="F:\"},@{"LogicalName"="DB1_log";"Destination"="F:\"}},@{"Host"="Host2";"Type"="SQLDatabase";"Name"="Host2\RahulDB";"Files"=@{"LogicalName"="RahulDB";"Destination"="F:\"},@{"LogicalName"="RahulDB_log";"Destination"="F:\"}} -DeleteOriginal -PluginCode SMSQL
```

This example syntax moves a database from one shared volume to another shared volume in a failover cluster instance.

Invoke-SmPrimaryBackupsExistenceCheck

Checks the existence of primary backups on the host and marks the backups as removed for snapshots that are not available in primary storage volumes.

Syntax

```
Invoke-SmPrimaryBackupsExistenceCheck [-HostName] <String>
```

Detailed Description

Checks the existence of primary backups on the host and marks the backups as removed for snapshots that are not available in primary storage volumes.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName	Name of the host on which the primary backups existence check will be performed.	true	true (ByPropertyName)	

Examples

Example 1: Primary Backups existence check

```
Invoke-SmPrimaryBackupsExistenceCheck -HostName host.mva.gdl.netapp.com
```

```
Initiating Primary Backups Existence Check..
Name: Primary backups existence on host: 'host.mva.gdl.netapp.com'
Id   : 1024
StartTime   : 11/24/2023 5:02:51 AM
EndTime    : 11/24/2023 5:02:51 AM
IsCancellable : False
IsRestartable : False
IsCompleted  : False
IsVisible    : True
IsScheduled  : False
PercentageCompleted : 100
Description  :
Status      : Running
Owner       :
Error       :
Priority     : None
Tasks       : {Precheck validation}
ParentJobID : 0
EventId     : 0
JobTypeId   : 0
ApisJobKey  :
ObjectId    : 0
PluginCode  : NONE
PluginName  : NONE
HostId      : 0
RoleId      :
JobIds      : {}
ScsJobId    :
Invoke-SmPrimaryBackupsExistenceCheck Completed
```

This example checks the existence of primary backups on the host.

Invoke-SmReportSchedule

Run an existing schedule using this cmdlet.

Syntax

```
Invoke-SmReportSchedule [-Name] <String>
```

Detailed Description

Perform an on-demand run operation of an existing schedule using this cmdlet.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Specify the schedule name to perform on-demand run operation.	true	true (ByPropertyName)	

Examples

Example 1: Run a report schedule.

```
Invoke-SmReportSchedule -Name schedule1
```

This example runs a report schedule on-demand. Pass name of the schedule to perform on-demand run operation.

Invoke-SmResourceSplit

Initiates the split clone operation.

Syntax

```
Invoke-SmResourceSplit [-Estimate] <> [-AppObjectId] <String> [-CloneName] <String> [-Start] <> [-AppObjectId] <String> [-CloneName] <String> [-DoNotEstimate] <> [-EnableEmail] <> [-EmailPreference] <SmEmailNotificationPreference> [-Stop] <> [-AppObjectId] <String> [-CloneName] <String> [-Status] <> [-AppObjectId] <String> [-CloneName] <String>
```

Detailed Description

You can use SnapCenter to split the database clone from the parent database. The split clone database becomes independent of the original database.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Estimate	Specifies that details be provided for volumes that are being split.	false	true (ByValue)	
AppObjectId	Specifies the AppObjectId of the clone where the split will be performed.	false	true (ByValue)	
CloneName	The name of the clone where the split will be performed.	false	true (ByValue)	
EmailBody		false	true (ByPropertyName)	
EmailFrom		true	true (ByPropertyName)	
EmailTo		true	true (ByPropertyName)	
EmailSubject		true	true (ByPropertyName)	
EnableEmailAttachm ent		false	true (ByPropertyName)	
Start	Triggers the split clone operation.	false	true (ByValue)	
DoNotEstimate	Specifies that details should not be provided for the volumes that are being split.	false	true (ByValue)	
EnableEmail	Enables email notifications.	false	false	
EmailPreference	Specifies when you will received email notifications. Possible values include Always, Never, OnError, OnErrorOrWarning.	false	false	
Stop	Stops the split clone operation.	false	true (ByValue)	
Status	Determines the status of the split clone operation.	false	true (ByValue)	

Examples

Example 1: Clone split estimate

```
Invoke-SmResourceSplit -AppObjectId 'SC14110001040-3\NAMEDINST1\SC14110001040_3_SDML_1_Clone_103255' -Estimate
```

This example syntax displays the estimate details for the volume that is going to be split.

```
Clone Split Estimate Job Summary:
=====
JobId : 221
ListVolumeAggSpaceMapping :
{SC14110001040_3_SDML_Data_Vol1115172233091381,
SC14110001040_3_SDML_Log_Vol1115172233079350}
CanSplit : True
AppObjectId : SC14110001040_3_SDML_1_Clone_103255
CloneName : ResourceGroup_SDML_45212443__clone__11-15-2017_22.33.25
Result: SMCoreContracts.SMResult
TotalCount: 0
DisplayCount : 0
Context :
Job : SMCoreContracts.SmJob
Estimation Details for the volumes involved in Clone Split:
=====
VolumeName: SC14110001040_3_SDML_Data_Vol1115172233091381
RequiredSpace : 24 MB
AggregateName : aggr_anu
AvailableSpaceInAggregate : 3528 GB
StorageSystem : 10.225.85.51
IsVolumeAlreadySplit : False
VolumeName: SC14110001040_3_SDML_Log_Vol1115172233079350
RequiredSpace : 22 MB
AggregateName : aggr_anu
AvailableSpaceInAggregate : 3528 GB
StorageSystem : 10.225.85.51
IsVolumeAlreadySplit : False
```

Example 2: Clone split status

```
Invoke-SmResourceSplit -CloneName
'Resource_Group_Instance_45212443__clone__11-15-2017_22.44.24' -Status
```

This example syntax displays the status of a clone split operation.

Clone Split Status Job Summary:

=====

JobId: 237

AppObjectId : SC14110001040_3_MDSL_4_Clone_104322

CloneName: Resource_Group_Instance_45212443__clone__11-15-2017_22.44.24

Result : SMCoreContracts.SMResult

TotalCount : 0

DisplayCount : 0

Example 3: Starting a clone split operation

```
Invoke-SmResourceSplit -CloneName  
'Resource_Group_Instance_45212443__clone__11-15-2017_22.44.24'  
-confirm:$false -Start
```

This example syntax starts a clone split operation.

Clone Split Start Job Summary:

=====

JobId: 238

AppObjectId : SC14110001040_3_MDSL_4_Clone_104322

CloneName: Resource_Group_Instance_45212443__clone__11-15-2017_22.44.24

Result : SMCoreContracts.SMResult

TotalCount : 0

DisplayCount : 0

Context :

Job : SMCoreContracts.SmJob

Example 4: Stopping a clone split operation

```
Invoke-SmResourceSplit -AppObjectId 'SC14110001040-  
3\NAMEDINST1\SC14110001040_3_MDML_4_Clone_105129' -Stop
```

This example syntax stops a clone split operation.

```

Clone Split Stop Job Summary:
=====
JobId: 246
AppObjectId : SC14110001040_3_MDML_4_Clone_105129
CloneName: Resource_Group_Instance_45212443__clone__11-15-2017_22.52.47
Result : SMCoreContracts.SMResult
TotalCount : 0
DisplayCount : 0
Context :
Job : SMCoreContracts.SmJob

```

Example 5: Clone split estimate for a SAP HANA MultiTenant Database Container resource clone

```

Invoke-SmResourceSplit -Estimate -CloneName
SNAPCENTER40.sscore.test.com\hana\H30\H30_cn

```

This example syntax displays the estimate details for the volume that is going to be split. CloneName may be obtained by running the Get-SmClone command.

```

Clone Split Stop Job Summary:
=====
JobId : 773
ListVolumeAggSpaceMapping : {ng_pvol04021807440550}
CanSplit : True
AppObjectId : H30_cn
CloneName : SNAPCENTER40.sscore.test.com\hana\H30\H30_cn
Result: SMCoreContracts.SMResult
TotalCount: 0
DisplayCount : 0
Context :
Job : SMCoreContracts.SmJob
Estimation Details for the volumes involved in Clone Split:
=====
VolumeName: ng_pvol04021807440550
RequiredSpace : 48 MB
AggregateName : aggr1_old
AvailableSpaceInAggregate : 4670 GB
StorageSystem : 10.200.200.100
IsVolumeAlreadySplit : False

```

Example 6: Starting a clone split operation for a SAP HANA MultiTenant Database Container resource clone

```
Invoke-SmResourceSplit -start -CloneName  
SNAPCENTER40.sscore.test.com\hana\H30\H30_cn
```

This example syntax starts a clone split operation. CloneName may be obtained by running the Get-SmClone command.

```
This may take several minutes to complete for large volumes. All backups  
taken on the clone will be deleted  
Do you still want to continue?  
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help  
(default is "Y"):  
Clone Split Start Job Summary:  
=====
```

JobId:	774
AppObjectId	: H30_cn
CloneName:	SNAPCENTER40.sscore.test.com\hana\H30\H30_cn
Result	: SMCoreContracts.SMResult
TotalCount	: 0
DisplayCount	: 0
Context	:
Job	: SMCoreContracts.SmJob

Example 7: Stopping a clone split operation for a SAP HANA MultiTenant Database Container resource clone

```
Invoke-SmResourceSplit -stop -CloneName  
SNAPCENTER40.sscore.test.com\hana\H30\H30_cn
```

This example syntax stops a clone split operation. CloneName may be obtained by running the Get-SmClone command

```
Clone Split Stop Job Summary:
=====
JobId: 775
AppObjectId : H30_cn
CloneName: SNAPCENTER40.sscore.test.com\hana\H30\H30_cn
Result : SMCoreContracts.SMResult
TotalCount : 0
DisplayCount : 0
Context :
Job : SMCoreContracts.SmJob
```

Invoke-SmTechRefreshHost

Perform tech refresh of source host with destination host.

Syntax

```
Invoke-SmTechRefreshHost [-OldHostName] <String> [-NewHostName]
<String> [-IsDryRun] <Boolean> [-AutoMigrateManuallyAddedResource]
<Boolean> [-SQLInstanceMapping] <Hashtable[]>
```

Detailed Description

Perform tech refresh of source host with destination host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
OldHostName	Specify the name of source host whose resources needs to be relinked.	true	true (ByPropertyName)	
NewHostName	Specify the name of destination host where you want to relink the resources of the source host.	true	true (ByPropertyName)	
IsDryRun	Specify whether you want to perform a dry run to find the matching resources without relinking them.	false	true (ByPropertyName)	True
AutoMigrateManuallyAddedResource	Specify whether you want to migrate unmatched manually added resources.	false	true (ByPropertyName)	False

Name	Description	Required ?	Pipeline Input	Default Value
SQLInstanceMapping	Specify the list of SQL instance mapping, if resource is being migrated to another instance on new host. You must provide the instance mapping in a hashtable, and it must contain the OldInstanceName and NewInstanceName. For example, @{OldInstanceName="instance1";NewInstanceName="instance1_new"}, @{OldInstanceName="instance2";NewInstanceName="instance2_new"} You can include comma-separated values for multiple instance mapping.	false	true (ByPropertyName)	

Examples

Example 1: Tech refresh of old host with new host.

```
Invoke-SmTechRefreshHost -OldHostName host.mva.gdl.netapp.com
-NewHostName hostNew.mva.gdl.netapp.com -IsDryRun 0
-AutoMigrateManuallyAddedResource 1
```

```
Initiating host tech refresh..  
Name: Tech refresh of host 'host.mva.gdl.netapp.com' with host  
'hostNew.mva.gdl.netapp.com'  
Id : 811  
StartTime : 9/11/2023 6:10:43 PM  
EndTime : 9/11/2023 6:10:43 PM  
IsCancellable : False  
IsRestartable : False  
IsCompleted : False  
IsVisible : True  
IsScheduled : False  
PercentageCompleted : 100  
Description :  
Status : Running  
Owner :  
Error :  
Priority: None  
Tasks : {Precheck validation}  
ParentJobID : 0  
EventId : 0  
JobTypeId : 10  
ApisJobKey :  
ObjectId: 0  
PluginCode : NONE  
PluginName : NONE  
HostId : 0  
RoleId :  
JobIds : {}  
ScsJobId:  
Invoke-SmTechRefreshHost Completed
```

This example does a tech refresh of old host with new host

Example 2: Tech refresh of old host with new host when SQL resource is migrated from one instance to another

```
Invoke-SmTechRefreshHost -OldHostName host.mva.gdl.netapp.com  
-NewHostName hostNew.mva.gdl.netapp.com -IsDryRun 0  
-AutoMigrateManuallyAddedResource 1  
-SQLInstanceMapping  
@{"OldInstanceName"="instance1";"NewInstanceName"="instance1_new"},@{"OldI  
nstanceName"="instance2";"NewInstanceName"="instance2_new"}
```

```

Initiating host tech refresh..
Name: Tech refresh of host 'host.mva.gdl.netapp.com' with host
'hostNew.mva.gdl.netapp.com'
Id : 811
StartTime : 9/11/2023 6:10:43 PM
EndTime : 9/11/2023 6:10:43 PM
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 100
Description :
Status : Running
Owner :
Error :
Priority: None
Tasks : {Precheck validation}
ParentJobID : 0
EventId : 0
JobTypeId : 10
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName : NONE
HostId : 0
RoleId :
JobIds : {}
ScsJobId:
Invoke-SmTechRefreshHost Completed

```

This example does a tech refresh of old host with new host

Invoke-SmTechRefreshPrimaryStorage

Perform storage tech refresh of host.

Syntax

```

Invoke-SmTechRefreshPrimaryStorage [-HostName] <String> [-IsDryRun]
<Boolean> [-ChangedNDVMapping] <Hashtable[]>

```

Detailed Description

Perform storage tech refresh of host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName	Specify the host name on which storage refresh has to be done.	true	true (ByPropertyName)	
IsDryRun	Specify whether you want to perform a dry run to find the list of resources for which storage has changed. By default, the value of dry run is set to true.	false	true (ByPropertyName)	True
ChangedNDVMapping	Specify the list of Non Data Volumes(NDV) mapping if NDV resource is being migrated from one set of volumes to another set. You must provide the NDVs mapping in a hashtable, and it must contain the OldVolumePath and NewVolumePath. For example,@{"OldVolumePath"="SVM1:/vol/myVol1";"OldVolumePath"="SVM2:/vol/myVol1_new"},@{"OldVolumePath"="SVM3:/vol/myVol2";"OldVolumePath"="SVM4:/vol/myVol2_new"} You can include comma-separated values for multiple NDVs mapping.	false	true (ByPropertyName)	

Examples

Example 1: Storage tech refresh of host.

```
Invoke-SmTechRefreshPrimaryStorage -HostName host.mva.gdl.netapp.com  
-IsDryRun 0
```

```
Initiating storage tech refresh..  
Name: Tech refresh of storage in host 'host.mva.gdl.netapp.com'  
Id : 984  
StartTime : 10/26/2023 5:02:14 AM  
EndTime : 10/26/2023 5:02:14 AM  
IsCancellable : False  
IsRestartable : False  
IsCompleted : False  
IsVisible : True  
IsScheduled : False  
PercentageCompleted : 100  
Description :  
Status : Running  
Owner :  
Error :  
Priority: None  
Tasks : {}  
ParentJobID : 0  
EventId : 0  
JobTypeId : 52  
ApisJobKey :  
ObjectId: 0  
PluginCode : NONE  
PluginName : NONE  
HostId : 0  
RoleId :  
JobIds : {}  
ScsJobId:  
Invoke-SmTechRefreshPrimaryStorage Completed
```

This example does a tech refresh of the storage in the host.

Example 2: Storage tech refresh of host.

```
Invoke-SmTechRefreshPrimaryStorage -HostName host.mva.gdl.netapp.com  
-IsDryRun 0 -ChangedNDVMapping  
@{"OldVolumePath"="SVM1:/vol/myVol1";"NewVolumePath"="SVM2:/vol/myVol1_new"  
"},@{"OldVolumePath"="SVM3:/vol/myVol2";"NewVolumePath"="SVM4:/vol/myVol2_  
new"}
```

```
Initiating storage tech refresh..  
Name: Tech refresh of storage in host 'host.mva.gdl.netapp.com'  
Id : 984  
StartTime : 10/26/2023 5:02:14 AM  
EndTime : 10/26/2023 5:02:14 AM  
IsCancellable : False  
IsRestartable : False  
IsCompleted : False  
IsVisible : True  
IsScheduled : False  
PercentageCompleted : 100  
Description :  
Status : Running  
Owner :  
Error :  
Priority: None  
Tasks : {}  
ParentJobID : 0  
EventId : 0  
JobTypeId : 52  
ApisJobKey :  
ObjectId: 0  
PluginCode : NONE  
PluginName : NONE  
HostId : 0  
RoleId :  
JobIds : {}  
ScsJobId:  
Invoke-SmTechRefreshPrimaryStorage Completed
```

This example does a Tech refresh of storage in the host.

Invoke-SmTechRefreshSecondaryStorage

Starts tech refresh on secondary storage.

Syntax

```
Invoke-SmTechRefreshSecondaryStorage [-HostName] <String>
```

Detailed Description

Starts tech refresh on secondary storage..

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName	Specify the host name on which storage refresh has to be done.	true	true (ByPropertyName)	

Examples

Example 1: Tech Refresh Secondary Storage

```
Invoke-SmTechRefreshSecondaryStorage
```

```
Initiating secondary storage tech refresh..  
Name:  
Id   : 393  
StartTime   :  
EndTime    :  
IsCancellable : False  
IsRestartable : False  
IsCompleted : False  
IsVisible    : True  
IsScheduled  : False  
PercentageCompleted : 0  
Description  :  
Status      : Running  
Owner       :  
Error       :  
Priority     : None  
Tasks       : {}  
ParentJobID : 0  
EventId     : 0  
JobTypeId   :  
ApisJobKey  :  
ObjectId    : 0  
PluginCode  : NONE  
PluginName  :  
HostId     : 0  
RoleId     :  
JobIds      : {}  
ScsJobId:  
Invoke-SmTechRefreshSecondaryStorage Completed
```

This example does secondary storage tech refresh.

Invoke-Sm_ExecuteQuery

This is a test cmdlet, for QA use only.

Syntax

```
Invoke-Sm_ExecuteQuery [-Query] <String>
```

Detailed Description

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Query		true	true (ByPropertyName)	

Examples

New-SmAlert

Create new alert.

Syntax

```
New-SmAlert [-Name] <String> [-Description] <String> [-Recommendation] <String> [-Severity] <SmAlertSeverity> [-Status] <SmAlertStatus> [-EntityType] <SmEntityType> [-EntityName] <String> [-JobId] <String> [-Source] <SmAlertSource>
```

Detailed Description

To create new alert, Valid connection is required. You should provide alert severity like Informational, Warning or Critical and EntityType can be All, SnapCenterServer, Host or StorageSystem. The Source parameter should be ConfigurationChecker or SnapCenterServer.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name		true	true (ByPropertyName)	
Description		true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
Recommendation		true	true (ByPropertyName)	
Severity		true	true (ByPropertyName)	
Status		false	true (ByPropertyName)	
EntityType		true	true (ByPropertyName)	
EntityName		false	true (ByPropertyName)	
JobId		true	true (ByPropertyName)	
Source		true	true (ByPropertyName)	

Examples

Example 1: Create new alert

```
New-SmAlert -Name TestAlert -Description ForSnapCenter -Recommendation
AnyRecom -Severity Informational -Status New -EntityType Host -EntityName
WIN-SCServer.Domain1.com -JobId 162 -Source SnapCenterServer
```

This example syntax creates an alert.

Id :

```
CreatedTime: 1/1/0001 12:00:00 AM
ModifiedTime : 1/1/0001 12:00:00 AM
Name : TestAlert
Status : New
Severity : Informational
Entity : SMCoreContracts.ConfigCheck.SmEntity
Description: ForSnapCenter
Recommendation : AnyRecom
JobId : 162
Source : SnapCenterServer
IsRulePassed : False
EntityType : Host
EntityName : WIN-SCServer.Domain1.com
EntityId :
Username :
Password :
Port :
```

New-SmBackup

Initiates a new Snapshot copy job.

Syntax

```
New-SmBackup [-Resources] <Hashtable[]> [-DatasetName] <String> [-
ResourceGroupName] <String> [-Policy] <String> [-Auth] <String> [-
IsScheduled] <Boolean> [-ClusterName] <String> [-SMSBaseUrl] <String>
[-IsNLBHost] <Boolean> [-ScheduleName] <String> [-ScheduleType]
<SmSchedulerType> [-Guid1] <String> [-Guid2] <String> [-
SnapshotLabel] <SmSPSSnapShotLabel> [-HostName] <String> [-
VerifyOnSecondary] <> [-EnableVerification] <>
```

Detailed Description

Initiates a new Snapshot copy job on the provided resource or the resources mapped to the provided resource group.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Resources	Specifies the resource which you want to backup. For Oracle Application Volume resource, format is -Resources @{"Host"="host1";"Application Volume"="appVol1"}	false	true (ByPropertyName)	
DatasetName	Names the dataset you want to back up.	false	false	
ResourceGroupName		false	false	
Policy	Specifies the policy you want to use for the backup operation.	true	false	
Auth	This parameter is for internal use only.	false	false	
IsScheduled	Internal switch to determine Cmdlet invocation by scheduler.	false	false	
ClusterName	Internal switch for identifying the cluster host.	false	false	
SMSBaseUrl	Internal switch that points to the SMS Base URL.	false	false	
IsNLBHost	Internal switch that indicates whether this host is part of NLB.	false	false	
ScheduleName	Internal switch that indicates schedule name.	false	false	
ScheduleType		false	false	
Guid1		false	false	
Guid2		false	false	
SnapShotLabel		false	false	
HostName	Determines the host name (FQDN) for which the backup job has been scheduled.	false	false	
VerifyOnSecondary	Specifies whether verification is enabled on secondary storage.	false	false	
EnableVerification	Specifies whether verification of backups is enabled. Values are either \$True or \$False.	false	false	

Examples

Example 1: Backing up a resource group

```
New-SMBackup -ResourceGroupName FullOnlineDataset1 -Policy  
FullBackupPolicy
```

This example syntax backs up the specified resource group.

Example 2: Backing up resources

```
New-SMBackup -Policy FullBackupPolicy -Resources  
@{"Host"="scspr0101826001-sumanr.lab.netapp.com";"Oracle Database"="ong"}
```

This example syntax backs up the specified resources.

Example 3: Enabling verification of a backup

```
New-SMBackup -EnableVerification $true -VerifyOnSecondary $true -Policy  
FullBackupPolicy -Resources @{"Host"="scspr0101826001-  
sumanr.lab.netapp.com";"Oracle Database"="ong"}
```

This example syntax backs up the specified resources and verifies the backup when it completes.

Example 4: Triggering a new backup of the HANA resource

```
New-SMBackup -Resources  
@{"Host"="schana02.gdl.englab.netapp.com";"Uid"="MDC\R57";"PluginName"="ha  
na"} -Policy "HANAPOLICY"
```

This example backs up the specified resources.

```
Name: Backup of Resource Group
'schana02_gdl_englab_netapp_com_hana_MDC_R57' with policy 'HANAPOLICY'
Id   : 25
StartTime   : 02-Oct-19 21:49:46
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 0
ApisJobKey    :
ObjectId      : 0
PluginCode    : SCC
PluginName    : PluginCreator
HostId        : 0
RoleId        :
JobIds        : {}
```

Example 5: Backing up an Oracle Application Volume Resource

```
New-SMBackup -Policy ndvpolicy -Resources
@{"Host"="R809278EA03V1.HNK2.com";"Application Volume"="appVol1"}
```

This example syntax backs up the specified Oracle Application Volume resource.

Example 6: Triggering a new backup of the UnixFileSystems resource

```
New-SMBackup -ResourceGroupName "RG_PS_linuxfs201_LVM1_12648" -Policy
"BackupPS_linuxfs201_LVM1_12648"
```

This example backs up the specified resources.

```
Name: Backup of Resource Group 'RG_PS_linuxfs201_LVM1_12648'
with policy
                                     'BackupPS_linuxfs201_LVM1_12648'
Id      : 2759
StartTime    : 12/12/2023 8:29:33 AM
EndTime      :
IsCancellable : False
IsRestartable : False
IsCompleted   : False
IsVisible     : True
IsScheduled   : False
PercentageCompleted : 0
Description   :
Status        : Queued
Owner         :
Error         :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 0
ApisJobKey    :
ObjectId      : 0
PluginCode    : SCC
PluginName    : PluginCreator
HostId        : 0
RoleId        :
JobIds        : {}
ScsJobId      :
```

New-SmClone

Initiates a clone operation.

Syntax

```

New-SmClone [-DatasetName] <String> [-Policy] <String> [-
AppPluginCode] <PluginCode> [-PDBName] <String> [-PDBCloneName]
<String> [-CDBTargetSID] <String> [-PdbstoBeExcluded] <String> [-
OpenPluggableDatabaseAfterClone] <Boolean> [-
SkipTempTablesTempFileCreation] <> [-LogArchivedLocators]
<Hashtable[]> [-Auth] <String> [-IsScheduled] <Boolean> [-
ClusterName] <String> [-SMSBaseUrl] <String> [-IsNLBHost] <Boolean>
[-ScheduleName] <String> [-CreateRemoteClone] <Boolean> [-Guid1]
<String> [-Guid2] <String> [-BackupName] <String> [-Resources]
<Hashtable[]> [-AppPluginCode] <PluginCode> [-CloneUidString] <String>
[-CloneToInstance] <String> [-AutoAssignMountPoint] <> [-
ArchivedLocators] <Hashtable[]> [-AssignMountPointUnderPath] <String>
[-Suffix] <String> [-LogArchivedLocators] <Hashtable[]> [-
LogRestoreType] <SmSqlLogRestoreType> [-LogCutOffDateTime] <DateTime>
[-LogCount] <Int32> [-Auth] <String> [-IsScheduled] <Boolean> [-
ClusterName] <String> [-SMSBaseUrl] <String> [-IsNLBHost] <Boolean>
[-ScheduleName] <String> [-CloneLastBackup] <Int32> [-
CreateRemoteClone] <Boolean> [-Guid1] <String> [-Guid2] <String> [-
CloneName] <String> [-EnableEmail] <> [-PreScriptCommand] <String>
[-PreScriptArguments] <String> [-PostScriptCommand] <String> [-
PostScriptArguments] <String> [-ScriptTimeOut] <Int32> [-
PreCloneScriptPath] <String> [-PostCloneScriptPath] <String> [-
MountCommands] <String>

```

Detailed Description

Initiates a clone operation. You can initiate a clone job from either a clone dataset or an existing backup.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
DatasetName	Specifies the name of the clone dataset.	true	false	
Policy	Specifies the clone policy you want to use.	true	false	
AppPluginCode	Specifies the application plug-in type of the resource. Possible values are SMSQL and SCO.	true	false	
PDBName	Source Oracle pluggable database name.	false	false	
PDBCloneName	Pluggable Clone Oracle pluggable database name.	false	false	

Name	Description	Required ?	Pipeline Input	Default Value
CDBTargetSID	Target container database SID.	false	false	
PdbsToBeExcluded	List of Oracle pluggable databases to be excluded from newly cloned container database.	false	false	
OpenPluggableDatabaseAfterClone	To open pluggable database after clone creation.	false	false	
SkipTempTablespaceTempFileCreation	Skips creating a tempfile for the default temporary tablespace of the cloned database.	false	true (ByPropertyName)	
LogArchivedLocators	Specifies the secondary storage system details for each unique primary storage system resource in the dataset. For example:-LogArchivedLocators @ {Primary="my_vs1:my_vol_iscsi";Secondary="my_vs1:my_vol_iscsi_SECONDARY"}	false	false	
Auth	This parameter is for internal use only.	false	false	
IsScheduled	This parameter is for internal use only.	false	false	
ClusterName	This parameter is for internal use only.	false	false	
SMSBaseUrl	This parameter is for internal use only.	false	false	
IsNLBHost		false	false	
ScheduleName		false	false	
CreateRemoteClone		false	true (ByPropertyName)	
Guid1		false	false	
Guid2		false	false	
OracleUntilCancel	Specifies recovery will be performed using the latest available log backup. If archive log pruning is configured, the latest log backup having archive logs prior to pruning is selected for recovery.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
OracleUntilScn	Specifies the SCN of logs till which you want to recover the cloned Oracle Database.	false	true (ByPropertyName)	
OracleUntilTime	Specifies the date and time till which you want to recover the cloned Oracle Database. You must specify the date and time in the 'MM-dd-yyyy HH:mm:ss' format. For example: '07/02/2018 06:12:15'.	false	true (ByPropertyName)	
ExternalArchiveLogMountPaths	Specifies the alternate paths for archive logs to be used for recovery. Multiple alternate archive log paths can be specified in a comma separated list.	false	true (ByPropertyName)	
DataFilesMountPaths	Specifies, in a hash table, the destination mount path, source directory path, and disk location type. For example: @{"DestinationMountPath"="/mnt/db12c_data_STAND";"SourceDirectoryPath"=" /mnt/db12c_data";"DiskLocationType"="MountPoint"}	false	true (ByPropertyName)	
DatabaseSID	Specifies the Oracle system ID, which is used to uniquely identify a particular database. The maximum length of a clone SID is 8 characters. Example: -DatabaseSID STAND	true	true (ByPropertyName)	
DisableArchiveLogMode	Specify if archive log mode to be disabled.	false	true (ByPropertyName)	
EnableOSAuthentication		false	true (ByPropertyName)	
OracleOsUserName	Specifies the OS user name. For example: -OracleOsUserName oracle	true	true (ByPropertyName)	
OracleOsUserGroup	Specifies the name of the Oracle OS user group. For example: oinstall	true	true (ByPropertyName)	
databaseLoginUserName	Specifies the login name of the database user.	false	true (ByPropertyName)	
databaseLoginPassword	Specifies the database user's login password.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
OracleVersion	Specifies the Oracle version.Example: -OracleVersion 12.1.0.2	false	true (ByPropertyName)	
OracleHome	Specifies the Oracle home directory.Example: -OracleHome /ora01/app/oracle/product/11.2.0/db_1	false	true (ByPropertyName)	
ControlFileConfiguration	Specifies the path for the control file in a hash table.For example: -ControlFileConfiguration @{"FilePath"="/mnt/db12c_data_STAND/STAND/control/control01.ctl"}, @{"FilePath"="/mnt/db12c_data_STAND/STAND/control/control02.ctl"}	true	true (ByPropertyName)	
RedoLogFileConfiguration	Specifies the redo log file details in a hash table. The following parameters are required: FilePath, RedologNumber, TotalSize, BlockSize.The following is an example of using the RedoLogFileConfiguration parameter:- RedoLogFileConfiguration@{"FilePath"="/mnt/db12c_data_STAND/STAND/redo01.log";"RedologNumber"="1";"BlockSize"="512";"TotalSize"="50"}, @{"FilePath"="/mnt/db12c_data_STAND/STAND/redo02.log";"RedologNumber"="2";"BlockSize"="512";"TotalSize"="50"}, @{"FilePath"="/mnt/db12c_data_STAND/STAND/redo03.log";"RedologNumber"="3";"BlockSize"="512";"TotalSize"="50"}	true	true (ByPropertyName)	
PostCloneSqlQueries	Specifies any post-clone SQL queries. Multiple queries are separated by a semicolon ';'. ;	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
CustomParameters	Specifies custom parameters in a hash table. At least one custom parameter is required. For example: -CustomParameters @{"Key" = "audit_file_dest"; "Value" = "/u01/app/oracle/admin/DB12C/adump_STAND"}, @{"Key" = "log_archive_dest_1"; "Value" = "LOCATION=/u01/app/oracle/product/12.1.0.2/db_1/STAND"} You can use this parameter when you have a clone of a clone that fails with the error "ORA-00058: DB_BLOCK_SIZE must be 32768 to mount this database (not 8192)" to explicitly pass the custom parameter, for example: -CustomParameters @{"Key" = "DB_BLOCK_SIZE "; "Value" = "value"} and substituting the correct block size.	false	true (ByPropertyName)	
RenamePDBConfiguration	Renames the PDB configuration in a hash table using the following format: -RenamePDBConfiguration @{"CurrentName" = "", "NewName" = ""}	false	true (ByPropertyName)	
SkipRecovery	Indicates that you want to skip the recovery operation of the cloned database.	false	false	
DatabasePort		false	true (ByPropertyName)	
ASMPort		false	true (ByPropertyName)	
DatabaseCredentialName		false	true (ByPropertyName)	
AsmCredentialName		false	true (ByPropertyName)	
SkipNIDCreation	To skip new DBID creation for the cloned Oracle Database.	false	true (ByPropertyName)	
EmailBody		false	true (ByPropertyName)	
EmailFrom	Specifies the sender's e-mail address.	true	true (ByPropertyName)	
EmailTo	Specifies the recipient's e-mail address.	true	true (ByPropertyName)	
EmailSubject	Specifies the subject of the e-mail.	true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
EnableEmailAttachm ent		false	true (ByPropertyName)	
BackupName	Specifies the name of the backup from which you want to clone. The following is an example of a SnapCenter Plug-in for Oracle Database backup name:- BackupName CDBPS_scomaddev_04-07-2016_06.14.38.8575_0	false	false	
Resources	Specifies the list of resources from which to clone. Use the Resources parameter when you are creating a clone from an existing backup. You must provide the resource information in a hashtable, and it must contain the resource name and type, as well as the host on which the resource is located. For example, @{"Host"="localhost";"Type"="SQL Database";"Names"="Instance\Database"} Valid Type value are SQL Database, Oracle Database, Windows Filesystem. For Oracle Database, the format is -Resources @{"Host"="host.example.com";"Oracle Database"="db"}. For Oracle Application Volume, the format is -Resources @{"Host"="host.example.com";"Application Volume"="appVol"}.	true	false	
CloneToInstance	Specifies the SQL Server instance that you want to clone to. All databases in the clone dataset are cloned to this instance. For Oracle application volume resource, it specifies the host on which clone should be mounted.	true	true (ByPropertyName)	
AutoAssignMountPoi nt	Specifies that the file system mount point is assigned automatically.	false	true (ByPropertyName)	
ArchivedLocators	Specifies the secondary storage system details for each unique primary storage system resource in the dataset. For example:-ArchivedLocators @{"Primary"="my_vs1:my_vol_iscsi";"Secondary"="my_vs1:my_vol_iscsi_SECONDARY"}	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
AssignMountPointUnderPath	Specifies that the file system mount point is created automatically under the specified mount path.	false	true (ByPropertyName)	
CloneUid	Provide a target HANA clone UID. Use this parameter if you are creating a HANA clone on the same host as that of the source. You can use the -CloneUid parameter only with a HANA resource.	true	true (ByPropertyName)	
CloneInstance	Provide a target DB2 clone instance name. Use this parameter if you are creating a DB2 clone on the different host as that of the source. You can use the -CloneInstance parameter only with a DB2 Database resource.	false	true (ByPropertyName)	
Suffix	Provides a clone name suffix. All clones you create with one clone job are appended with the same suffix name. Use this parameter if you are creating a clone from an existing backup. You can use the -suffix parameter or the -clonename parameter, but not both.	false	true (ByPropertyName)	
LogRestoreType	Specifies the recovery type for clones. Valid values are, the roll forward time, the number of logs to roll forward, or that you want to roll all logs forward.	false	true (ByPropertyName)	
LogCutOffDateTime	When you specify the date and time in the LogRestoreType parameter, you can use LogCutOffDateTime parameter to indicate the cut off time. If the server and plug-in host are in different time zones, the input must be as per the plug-in host time zone.	false	true (ByPropertyName)	
LogCount	When you specify a number of logs in LogRestoreType, use LogCount to specify the number of logs you want to roll forward.	false	true (ByPropertyName)	
CloneLastBackup		false	false	
CloneName	Enables you to specify a new name for the cloned database or resource. You can use the -clonename parameter or the -suffix parameter, but not both.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
Port	Provide a target port for clone. Use this parameter if you are creating a PostgreSQL cluster or MySQL instance clone. You can use the -Port parameter only with a PostgreSQL cluster or MySQL instance resource.	false	true (ByPropertyName)	
EnableEmail	Specifies whether to enable or disable e-mail.	false	false	
PreScriptCommand	Specifies commands that are executed before the restore operation.	false	true (ByPropertyName)	
PreScriptArguments	Specifies arguments to the prescript command.	false	true (ByPropertyName)	
PostScriptCommand	Specifies the commands that are executed after the restore operation.	false	true (ByPropertyName)	
PostScriptArguments	Specifies the arguments to the postscript command.	false	true (ByPropertyName)	
PreCloneScriptPath	This is an Oracle Application Volume specific parameter. It specifies absolute path of the executable script to be run before Clone operation. The script should be located either at /var/opt/snapcenter/spl/scripts/ or any directory inside the path on the Oracle Plug-in host.	false	true (ByPropertyName)	
PostCloneScriptPath	This is an Oracle Application Volume specific parameter. It specifies absolute path of the executable script to be run after Clone operation. The script should be located either at /var/opt/snapcenter/spl/scripts/ or any directory inside the path on the Oracle Plug-in host.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
MountCommands	This is an Oracle Application Volume specific parameter. It specifies commands to mount a file system to a the Clone Host. Mount command format is : mount <Source_SVM>:%<SOURCE_VOLUME_NAME>_Clone <mount_directory> To clone from secondary, the secondary volume name will be the SOURCE_VOLUME_NAME. Enter multiple mount commands separated by semi colon (;).	false	true (ByPropertyName)	
ScriptTimeOut	Specifies the maximum time to wait for the script to complete before timing out.	false	true (ByPropertyName)	
InitiatorName	Specifies the iSCSI IQN or FCP WWPN of the host on which the new clone will be created.	false	true (ByPropertyName)	
IgroupProtocol	Specifies the Igroup protocol type (mixed, fcp, or iscsi) to be used for the new clone.	false	true (ByPropertyName)	
NFSEExportIPs	Specifies the comma separated host name or IP address on which the cloned volumes are exported.	false	true (ByPropertyName)	
ThroughputMibps	Specifies the capacity pool throughput in Mibps for Manual QoS Capacity Pool.	false	true (ByPropertyName)	
CloneSource	Determines the source volume backup type. Valid values are PRIMARY or SECONDARY or OBJECT_STORAGE	false	true (ByPropertyName)	

Examples

Example 1: Creating a clone from a dataset

```
New-SmClone -DatasetName payrollclone_dataset -Policy
clonefromprimary_ondemand
```

This example syntax creates a new clone using the 'payrollclone_dataset' dataset and policy 'clonefromprimary_ondemand'.

```

Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
Name: Clone life cycle of dataset 'payrollclone_dataset' with policy
'clonefromprimary_ondemand'
Id           : 85
StartTime    : 8/5/2015 2:21:06 PM
EndTime      :
IsCancellable : False
IsRestartable : False
IsCompleted  : False
IsVisible     : False
IsScheduled  : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId      : 0

```

Example 2: Creating a clone from backup with all logs

```

New-SmClone -BackupName payroll_dataset_vise-f3_08-05-2015_15.28.28.9774
-Resources @{"Host"="vise-f3.sddev.mycompany.com";"Type"="SQL
Database";"Names"="vise-f3\SQLExpress\payroll"} -CloneToInstance vise-
f3\sqlexpress -AutoAssignMountPoint -Suffix _clonefrombackup
-LogRestoreType All -Policy clonefromprimary_ondemand

```

This example syntax creates a clone from the specified backup with all logs.

```

Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
Clones       : {}

```

Example 3: Creating a clone from backup with the specified number of logs

```
New-SmClone -BackupName payroll_dataset_vise-f3_08-05-2015_15.28.28.9774
-Resources @{
    Host="vise-f3.sddev.mycompany.com";"Type"="SQL
Database";"Names"="vise-f3\SQLExpress\payroll"} -CloneToInstance vise-f
3\sqlexpress -AutoAssignMountPoint -Suffix _clonefrombackup1
-LogRestoreType ByTransactionLogs -LogCount 2 -Policy clone
fromprimary_ondemand
```

This example syntax creates a clone from backup with the specified number of logs.

```
Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
Clones       : {}
```

Example 4: Creating a clone from backup with no logs

```
New-SmClone -BackupName payroll_dataset_vise-f3_08-05-2015_15.28.28.9774
-Resources @{
    Host="vise-f3.sddev.mycompany.com";"Type"="SQL
Database";"Names"="vise-f3\SQLExpress\payroll"} -CloneToInstance vise-
3\sqlexpress -AutoAssignMountPoint -Suffix _clonefrombackup1
-LogRestoreType None -Policy clonefromprimary_ondemand
```

This example syntax creates a clone from the specified backup with no logs.

```
Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
Clones       : {}
```

Example 5: Creating a clone to Microsoft SQL Server instance

```
New-SmClone -BackupName "BackupDS1_NY-VM-SC-SQL_12-08-2015_09.00.24.8367"
-Resources @{"host"="ny-vm-sc-sql";"Type"="SQL Database";"Names"="ny-vm-
sc-sql\AdventureWorks2012_data"} -AppPluginCode SMSQL -CloneToInstance
"ny-vm-sc-sql" -Suffix _CLPOSH -AutoAssignMountPoint
-AssignMountPointUnderPath "C:\SCMounts"
```

This example syntax creates a clone to the specified Microsoft SQL Server instance.

Example 6: Creating an on demand clone of DB2 resource on alternate host from primary storage

```
New-SmClone -BackupName
Verify_Clone_frombackup_Multiple_vols_with_resources_Alternate_Host_sscore
linux61_08-21-2016_19.04.14.6011 -Resources
@(@{"Host"="sccorelinux61.sscore.test.com";"Uid"="db2inst1\TESTDB"})
-CloneToInstance sscore146.sscore.test.com -CloneName 'TESTDB'
-CloneInstance 'db2inst1' -AppPluginCode 'DB2'
```

This example syntax creates a clone of the resource, hosted on Storage type NFS, and creates a new clone on an alternate host, which takes clone instance name and clone database name of target host

```

Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
Clones       : {}
Name: Clone from backup
'Verify_Clone_frombackup_Multiple_vols_with_resources_Alternate_Host_sccorelinux61_08-21-2016_19.04.14.6011'
Id          : 61043
StartTime    : 5/21/2024 7:05:11 PM
EndTime      :
IsCancellable : False
IsRestartable : False
IsCompleted   : False
IsVisible     : True
IsScheduled   : False
PercentageCompleted : 0
Description   :
Status        : Queued
Owner         :
Error         :
Priority: None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
PluginCode    : NONE
PluginName    :

```

Example 7: Creating an on demand clone from Secondary Storage for custom plugin resource

```

New-SmClone -BackupName
Verify_clone_secondary_SM_on_Qtree_unix_sccorelinux61_08-21-
2016_16.57.18.8490 -Resources
@{"Host"="sccorelinux61.sccore.test.com";"Uid"="QTREESM1"}
-CloneToInstance sccorelinux61.sccore.test.com -Suffix '_QtreeClone4'
-preclonecreatecommands 'mkdir /qtreeVol6_clone' -ArchivedLocators (
@{Primary="vserver_scauto_secondary:qtree_vol6_sccorelinux61_sccore_test_c
om";Secondary="vserver_scauto_primary:qtree_vol6SM_sccorelinux61_sccore_te
st_com"}) -AutoAssignMountPoint -AppPluginCode 'DB2' -mountcommand 'mount
vserver_scauto_primary:%qtree_vol6_sccorelinux61_sccore_test_com/qtreeVol6
_Clone /qtreeVol6_clone'

```

Clone QTree to same host from Secondary Storage using mount command.

At run-time, %qtree_vol6_sccorelinux61_sscore_test_com (source volume name) will resolve to new cloned volume name and new clone exported QTree will be mounted on folder "/qtreeVol6_clone

Example 8: Creating a clone of an ASM database

```
New-SmClone -BackupName "RG_084825_rhel68_asmsan_03-04-2017_08.49.52.1104_0" -AppPluginCode SCO -DatabaseSID clone -Resources @{"Host"="10.228.9.250";"Oracle Database"="sandb"} -AutoAssignMountPoint -CloneToInstance 10.228.9.250 -ControlFileConfiguration @{"FilePath"="/home/oracle/control01.ctl"} -RedoLogFileConfiguration @{"FilePath"="/home/oracle/redo03.log";"RedologNumber"="3";"TotalSize"="50";"BlockSize"="512"},@{"FilePath"="/home/oracle/redo02.log";"RedologNumber"="2";"TotalSize"="50";"BlockSize"="512"},@{"FilePath"="/home/oracle/redo01.log";"RedologNumber"="1";"TotalSize"="50";"BlockSize"="512"} -CustomParameters @{"Key" = "audit_file_dest";"Value"="/var/test"}
```

This example syntax creates a clone of an Automatic Storage Management (ASM) database.

Example 9: Creating a clone using a Windows file system resource

```
New-SmClone -CloneLastBackup 0 -Resources @{"Host"="localhost";"Type"="Windows Filesystem";"Names"="F:\"} -AppPluginCode SCW -AssignMountPointUnderPath C:\scmnpt\ -CloneToHost localhost
```

Example 10: Creating a remote clone

```
New-SmClone -BackupName SQL-Prod_mydb_SQL_Prod_10-23-2017_15.56.12.1837 -AppPluginCode SMSQL -Suffix _clone2 -Resources (@{"Host"="SQL-PROD";"Type"="SQL Database";"Names"="SQL-PRD\mydb"}) -CloneToInstance SQL-PRD -ArchivedLocators (@{Primary="svml:sql_data";Secondary="svml-dr:sql_data_vault"},@{Primary="svml:sql_log";Secondary="svml-dr:sql_log_vault"}) -AutoAssignMountPoint
```

This example syntax creates a clone from secondary storage with the following details:

Primary data volume path: svml:sql_data

Secondary data volume path: svml-dr:sql_data_vault

Primary log volume path: svml:sql_log

Secondary log volume path: svml-dr:sql_log_vault

The "ArchivedLocators" attribute is populated as a hash table with Primary and Secondary values for each volume that hosts the SQL database you want to clone.

Example 11: Creating an on demand clone for HANA database from primary backup and using NFSExportIPs to export the cloned volumes

```
New-SmClone -BackupName
cn2_sscore_test_com_hana_NonDataVolume_C21_CN_cn2_06-21-2018_03.21.14.6261
-Resources @{"Host"="cn2";"UID"="NonDataVolume\C21\CN"}
           -AppPluginCode HANA -CloneToInstance rhel182
-CloneUid="NonDataVolume\C22" -nfsexportips
"RHEL182,10.232.206.116,sscorelinux61.sscore.test.com" -mountcommand
"mount 10.232.206.5:%cn_p2_Clone /cn_vol_test"
```

Clone from primary storage using NFS Export IP field to specify the comma separated host name or IP address on which the cloned volumes are exported

Example 12: Creating a HANA Clone on same centralized host with mount command, NFS Export IPs and QoS

```
New-SmClone -BackupName "mva-s63_gdl_englab_com_hana_MDC_H14_mva-s63_03-
22-2021_05.43.49.8438" -Resources
@{"Host"="schana01.gdl.englab.netapp.com";"Uid"="MDC\R70"}
-CloneToInstance "mva-s63.gdl.englab.com" -AppPluginCode HANA -CloneUid
"MDC\H70"
-NFSExportIPs "10.232.206.116,mva-s63.gdl.englab.com" -mountcommand
"mount 10.232.206.5:%cn_p2_Clone /cn_vol_test"
-ThroughputMibps 1.56
```

HANA clone will be created using the same centralized host. In case of the same host, use -CloneUid paramter to specify the target clone UID.

Example 13: Creating an on demand clone for HANA database from secondary backup and using NFSExportIPs to export the cloned volumes

```
New-SmClone -BackupName
cn2_sscore_test_com_hana_NonDataVolume_C21_CN_cn2_06-21-2018_03.21.14.6261
-Resources @{"Host"="cn2";"UID"="NonDataVolume\C21\CN"}
           -AppPluginCode HANA -CloneToInstance rhel182
-CloneUid="NonDataVolume\C22" -ArchivedLocators
@{"primary"="vs_test1:cn_p2";"secondary"="vs_test1:cn_p2_vault1"}
-nfsexportips "RHEL182,10.232.206.116,sscorelinux61.sscore.test.com"
-mountcommand "mount 10.232.206.5:%cn_p2_Clone /cn_vol_test"
```

Clone from secondary storage backup using NFS Export IP field to specify the comma separated host name or IP address on which the cloned volumes are exported

Example 14: Creating an Oracle database clone from secondary using LogArchivedLocators

```
New-SmClone -OracleOsUserName oracle -OracleOsUserGroup oinstall
-BackupName "auto-nfs_gdl_englab_netapp_com_nasdb_05-02-
2018_08.39.11.5184_0" -AppPluginCode SCO -DatabaseSID Clon32 -Resources
@{"Host"="auto-nfs.gdl.englab.netapp.com";"Oracle Database"="nasdb"}
-AutoAssignMountPoint -CloneToInstance auto-nfs.gdl.englab.netapp.com
-ControlFileConfiguration
@{"FilePath"="/mnt/Data_Clone32/Clone32/control/control01.ctl"}
-RedoLogFileConfiguration
@{"FilePath"="/mnt/Data_Clone32/Clone32/redolog/redo01.log";"RedologNumber"=
"3";"TotalSize"="50";"BlockSize"="512"},@{"FilePath"="/MntPt_StaDB/Data_Cl
on32/Clone32/redolog/redo02.log";"RedologNumber"="2";"TotalSize"="50";"Bloc
kSize"="512"},@{"FilePath"="/MntPt_StaDB/Data_Clone32/Clone32/redolog/redo03
.log";"RedologNumber"="1";"TotalSize"="50";"BlockSize"="512"}
-CustomParameters @{"Key" = "audit_file_dest";"Value"="/var/test"}
-archivedlocators
@{Primary="10.225.118.251:auto_nfs_data";Secondary="ongqathree_man:ongqaone
_man_auto_nfs_data_vault"} -logarchivedlocators
@{Primary="10.225.118.251:auto_nfs_log";Secondary="ongqathree_man:ongqaone
_man_auto_nfs_log_vault"}
```

This example uses the -LogArchivedLocators to create an Oracle database clone from secondary storage.

Example 15: Creating an SQL clone using the clonename parameter to specify a new clone name

```
New-SmClone -BackupName SCNEW3_INSTANCE1_SCNEW3_MDML2_SCNEW3_02-28-
2018_02.27.53
.7034 -Resources @{"Host"="SCNEW3";"Type"="SQL
Database";"Names"="SCNEW3\INSTANCE1\SCNEW3_MDML2"} -CloneToInstance SCNE
W3\INSTANCE1 -clonename '_Clone_035231' -LogRestoreType 'None'
-AutoAssignMountPoint -AppPluginCode 'SCSQL'
```

This example creates a new clone _Clone_035231 using the -clonename parameter.

Example 16: Creating an ASM Oracle database clone using the backupname parameter

```

New-SmClone -OracleOsUserName oracle -OracleOsUserGroup oinstall
-BackupName "scodev-us1_gdl_englab_netapp_com_asmud2_scodev-us1_04-13-
2020_08.15.50.6683_0" -AppPluginCode SCO -DatabaseSID abc3 -Resources
@{"Host"="scodev-us1.gdl.englab.netapp.com";"Oracle Database"="asmud2"}
-AutoAssignMountPoint -CloneToInstance scodev-us1.gdl.englab.netapp.com
-DataFilesMountPaths
@{"DestinationMountPath"="SC_2443056968_abc3";"DiskLocationType"="Asm_Disk
Group";"SourceDirectoryPath"="DATAUDEV2"} -ControlFileConfiguration
@{"FilePath"="+SC_2443056968_abc3/abc3/control/control01.ctl"}
-RedoLogFileConfiguration
@{"FilePath"="+SC_2443056968_abc3/abc3/redolog/redo03.log";"RedologNumber"
="3";"TotalSize"="50";"BlockSize"="512"},@{"FilePath"="+SC_2443056968_abc3
/abc3/redolog/redo02.log";"RedologNumber"="2";"TotalSize"="50";"BlockSize"
="512"},@{"FilePath"="+SC_2443056968_abc3/abc3/redolog/redo01.log";"Redolo
gNumber"="1";"TotalSize"="50";"BlockSize"="512"} -CustomParameters
@{"Key" =
"audit_file_dest";"Value"="/ora01/app/oracle_software/oracle_base/admin/ab
c3/adump"};

```

This example creates a new ASM Oracle database clone abc3 using the -BackupName parameter.

Example 17: Creating an Oracle PDB clone

```

New-SmClone -OracleOsUserName oracle -OracleOsUserGroup oinstall
-BackupName "R706261C8F1V1_ZCDB1_R706261C8F1V1_08-03-2020_03.36.23.5540_0"
-AppPluginCode SCO -PDBName PDB3 -PDBCloneName SCJOBID -CDBTargetSID ZCDB1
-OpenPluggableDatabaseAfterClone -Resources @{"Host"="scodev-
us1.gdl.englab.netapp.com";"Oracle Database"="asmud2"}
-AutoAssignMountPoint -CloneToInstance scodev-us1.gdl.englab.netapp.com
-DataFilesMountPaths
@{"DestinationMountPath"="SC_2443056968_abc3";"DiskLocationType"="Asm_Disk
Group";"SourceDirectoryPath"="DATAUDEV2"} -ControlFileConfiguration
@{"FilePath"="+SC_2443056968_abc3/abc3/control/control01.ctl"}
-RedoLogFileConfiguration
@{"FilePath"="+SC_2443056968_abc3/abc3/redolog/redo03.log";"RedologNumber"
="3";"TotalSize"="50";"BlockSize"="512"},@{"FilePath"="+SC_2443056968_abc3
/abc3/redolog/redo02.log";"RedologNumber"="2";"TotalSize"="50";"BlockSize"
="512"},@{"FilePath"="+SC_2443056968_abc3/abc3/redolog/redo01.log";"Redolo
gNumber"="1";"TotalSize"="50";"BlockSize"="512"} -CustomParameters
@{"Key" =
"audit_file_dest";"Value"="/ora01/app/oracle_software/oracle_base/admin/ab
c3/adump"};

```

This example creates an Oracle PDB clone.

Example 18: Cloning an Oracle Application Volume from backup

```
New-SmClone -AppPluginCode SCO -BackupName
"R8092776CF4V1_HNK2_com_appVol1_R8092776CF4V1_11-06-2021_03.04.13.5289"
-Resources @{"Host"="R8092776CF4V1.HNK2.com";"Application
Volume"="appVol1"} -CloneName testExampleClone -CloneToInstance
R8092776CF4V1.HNK2.com -PreCloneScriptPath
"/var/opt/snapcenter/spl/scripts/preClone.sh" -MountCommands "mount
Test_SVM:%vol_test1_Clone /mnt/test" -PostCloneScriptPath
"/var/opt/snapcenter/spl/scripts/postClone.sh"
```

This example clones an Oracle Application Volume from backup.

Example 19: Cloning an Oracle Application Volume from secondary storage backup

```
New-SmClone -AppPluginCode SCO -BackupName
"R8092776CF4V1_HNK2_com_appVol1_R8092776CF4V1_11-06-2021_03.04.13.5289"
-Resources @{"Host"="R8092776CF4V1.HNK2.com";"Application
Volume"="appVol1"} -CloneName testExampleClone -CloneToInstance
R8092776CF4V1.HNK2.com -ArchivedLocators
@{"primary"="Source_SVM:vol_source";"secondary"="Dest_SVM:vol_source_dest"
}
```

This example clones an Oracle Application Volume from secondary storage backup.

Example 20: Creating a clone from a primary backup for UnixFileSystems plug-in

```
New-SmClone -AppPluginCode UnixFileSystems -BackupName
"RG_PS_linuxfs201_LVM1_12648_linuxfs201_12-12-2023_05.31.08.1302"
-Resources
@{"Host"="linuxfs.gdl.englab.netapp.com";"Uid"="/netapp/VGNFS1/LVM1"}
-suffix _Suffix_PrimPS_linuxfs201_LVM1_12648 -CloneToHost
linuxfs.gdl.englab.netapp.com
```

This example syntax creates a new clone using the backup and given suffix.

```

Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
Clones       : {}
Name: Clone from backup
'RG_PS_linuxfs201_LVM1_12648_linuxfs201_12-12-2023_05.31.08.1302'
Id          : 2763
StartTime    : 12/12/2023 8:32:40 AM
EndTime      :
IsCancellable : False
IsRestartable : False
IsCompleted  : False
IsVisible    : True
IsScheduled  : False
PercentageCompleted : 0
Description  :
Status       : Queued
Owner        :
Error        :
Priority: None
Tasks        : {}
ParentJobID  : 0
EventId      : 0
JobTypeId    : 6
ApisJobKey   :
ObjectId: 0
PluginCode   : SCC
PluginName   : PluginCreator
HostId       : 0
RoleId       :
JobIds       : {}
ScsJobId:

```

Example 21: Creating a clone from a secondary backup for UnixFileSystems plug-in

```
New-SmClone -AppPluginCode UnixFileSystems -BackupName
"RG_PS_linuxfs201_LVM1_12648_linuxfs201_12-12-2023_05.31.08.1302"
-Resources
@{"Host"="linuxfs.gdl.englab.netapp.com";"Uid"="/netapp/VGNFS1/LVM1"}
-ArchivedLocators
@{"primary"="Source_SVM:vol_source";"secondary"="Dest_SVM:vol_source_dest"
} -AutoAssignMountPoint -clonename
/netapp/VGNFS1/ClnName_Sec_PS_linuxfs_LVM1_12648
```

This example syntax creates a new clone using the secondary backup and given clonename.

```

Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
Clones       : {}
Name: Clone from backup
'RG_PS_linuxfs_LVM1_12648_linuxfs201_12-12-2023_05.31.08.1302'
Id          : 2783
StartTime    : 12/12/2023 8:32:40 AM
EndTime      :
IsCancellable : False
IsRestartable : False
IsCompleted  : False
IsVisible     : True
IsScheduled  : False
PercentageCompleted : 0
Description   :
Status        : Queued
Owner         :
Error         :
Priority      : None
Tasks         : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 6
ApisJobKey    :
ObjectId       : 0
PluginCode    : SCC
PluginName    : PluginCreator
HostId        : 0
RoleId        :
JobIds        : {}
ScsJobId      :

```

Example 22: Creating an on demand clone of PostgreSQL resource on alternate host from primary storage

```

New-SmClone -AppPluginCode PostgreSQL -BackupName
"shivahel2_rtp_openenglab_netapp_com_PostgreSQL_postgres_5432_shivahel2_
06-26-2024_00_33_41_1570" -Resources
@{"Host"="shivahel2.rtp.openenglab.netapp.com";"Uid"="postgres_5432"}
-Port 2345 -CloneToHost shivahel30.rtp.openenglab.netapp.com

```

This example syntax creates a clone of the resource, hosted on Storage type NFS, and creates a new clone on an alternate host, which takes clone cluster name appended with port number of target host

```
Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
Clones       : {}
Name: Clone from backup
'shivarhel2_rtp_openenglab_netapp_com_PostgreSQL_postgres_5432_shivarhel2_
06-26-2024_00_33_41_1570'
Id           : 109
StartTime    : 6/27/2024 1:49:58 AM
EndTime      :
IsCancellable : False
IsRestartable : False
IsCompleted  : False
IsVisible     : True
IsScheduled   : False
PercentageCompleted : 0
Description   :
Status        : Queued
Owner         :
Error         :
Priority: None
Tasks         : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 6
ApisJobKey    :
ObjectId: 0
PluginCode    : SCC
PluginName    : PluginCreator
HostId        : 0
RoleId        :
JobIds        : {}
ScsJobId:
MaxJobsInQueue : 0
JobTags       :
Tags: {}
WaitForTags    :
ResourceId     :
QueueTimeoutMins: 0
ProtectiongroupID :
PolicyID:
```

Example 23: Creating an on demand clone of MySQL resource on alternate host from primary storage

```
New-SmClone -AppPluginCode MySQL -BackupName  
"scs000211748_gdl_englab_netapp_com_MySQL_mysql_d_3306_scs000211748_06-26-  
2024_06.08.35.4307" -Resources  
@{"Host"="scs000211748.gdl.englab.netapp.com";"Uid"="mysqld_3306"} -Port  
3320 -CloneToHost shivarhel30.rtp.openenglab.netapp.com
```

This example syntax creates a clone of the resource, hosted on Storage type NFS, and creates a new clone on an alternate host, which takes clone instance name appended with port number of target host

Result : SMCoreContracts.SMResult
TotalCount : 0
DisplayCount : 0
Context :
Job : SMCoreContracts.SmJob
Clones : {}
Name: Clone from backup
'scs000211748_gdl_englab_netapp_com_MySQL_mysqld_3306_scs000211748_06-26-2024_06.08.35.4307'
Id : 460
StartTime : 6/28/2024 11:49:58 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 6
ApisJobKey :
ObjectId: 0
PluginCode : SCC
PluginName : PluginCreator
HostId : 0
RoleId :
JobIds : {}
ScsJobId:
MaxJobsInQueue : 0
JobTags :
Tags: {}
WaitForTags :
ResourceId :
QueueTimeoutMins: 0
ProtectiongroupID :
PolicyID:

New-SmMountBackup

Initiates a mount operation for a given backup.

Syntax

```
New-SmMountBackup [-BackupName] <String> [-HostName] <String> [-AppObjectId] <String> [-ArchivedLocators] <Hashtable[]> [-AsmCredentialName] <String> [-AsmPort] <Int32>
```

Detailed Description

Initiates a mount operation for a given backup.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
BackupName	Specifies the name of the backup being mounted.	true	true (ByPropertyName)	
HostName	Specifies the name of the host on which you want to mount the backup.	true	true (ByPropertyName)	
AppObjectId	Specifies the application object name and type. For example: -AppObjectId "linux.serengeti.com\orcl"	true	true (ByPropertyName)	
ArchivedLocators	Specifies in a hash table, the primary and secondary storage system and volume locations. For example:-ArchivedLocators @{Primary="my_vs1:my_vol_iscsi";Secondary="my_vs1:my_vol_iscsi_SECONDARY"}	false	true (ByPropertyName)	
AsmCredentialName		false	false	
AsmPort	Specifies the port on which the Oracle ASM instance is available.	false	false	

Examples

Example 1: Mounting a backup

```
New-SmMountBackup -BackupName dailyset1_linux_10-12-2015_18.19.07.1866_0
-HostName linux.serengeti.com -AppObjectId "linux.serengeti.com\orcl"
```

This example syntax mounts an Oracle backup.

Example 2: Mounting an ASM database backup using a Run As account and port

```
New-SmMountBackup -BackupName "dbMigSrcAsm_Dataset_scspr0070373002_12-14-
2015_09.56.41.
7460_0" -HostName "scspr0070373002.gdl.netapp.com" -AppObjectId
"scspr0070373002.gdl.netapp.com\dbMigSrcA
sm" -ASMRunAsName "mounter" -ASMPort 1521
```

This example syntax mounts an ASM database backup using the specified ASM Run As account and port.

```
Mount started successfully
Name: Mount Backup dbMigSrcAsm_Dataset_scspr0070373002_12-14-
2015_09.56.41.7460_0
Id : 1479
StartTime : 12/14/2015 10:01:43 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : False
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
```

Example 3: Mounting a backup using archived locators

```
New-SmMountBackup -BackupName dailyset1_linux_10-12-2015_18.19.07.1866_0
-HostName linux.serengeti.com -AppObjectId "linux.serengeti.com\orcl"
-ArchivedLocators @{Primary="test_vsl:test1_vol";Secondary=
"test_vsl:test1_vol_SECONDARY"}
```

This example syntax mounts a backup using archived locators.

New-SmMultifactorAuthenticationMetadata

To create the metadata required to setup the MFA for SnapCenter in a specified location.

Syntax

```
New-SmMultifactorAuthenticationMetadata [-Path] <>
```

Detailed Description

To create the metadata required to setup MFA for SnapCenter in the specified location.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Path	Create SnapCenter MFA metadata at the specified path.	false	false	

Examples

Example 1: Create SnapCenter MFA metadata at default location

```
New-SmMultifactorAuthenticationMetadata
```

This example syntax creates SnapCenter MFA metadata at default location.

SnapCenter MFA Metadata: SnapCenterMFAMetadata.xml successfully generated at:
c:\ProgramData\NetApp\SnapCenter\Package Repository

Example 2: Create SnapCenter MFA metadata at specified location

```
New-SmMultifactorAuthenticationMetadata -Path C:\SC_metadata
```

This example syntax creates SnapCenter MFA metadata at specified location.

SnapCenter MFA Metadata: SnapCenterMFAMetadata.xml successfully generated at: C:\SC_metadata

New-SmRole

Enables you to create a role, assign users, assign groups, and assign permissions.

Syntax

```
New-SmRole [-Name] <String> [-Description] <String> [-Permissions]
<String> [-AssignedUsers] <String> [-AssignedGroups] <String> [-
SharedObjects] <>
```

Detailed Description

Enables you to create a role, assign users, assign groups, and assign permissions.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Specifies the name of the new role.	true	true (ByPropertyName)	
Description	Specifies an optional description of the role.	false	true (ByPropertyName)	
Permissions	Specifies what permissions are assigned to the role.	false	true (ByPropertyName)	
AssignedUsers	Specifies users assigned to the role.	false	true (ByPropertyName)	
AssignedGroups	Specifies groups assigned to the role.	false	true (ByPropertyName)	
SharedObjects		false	true (ByPropertyName)	

Examples

Example 1: Creating a new role

```
New-SmRole -Name TestRole
```

This example syntax creates a new role with the specified name.

```
Description :
Name: TestRole
Type:
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

Example 2: Creating a new role and assigning a user

```
New-SmRole -Name TestRoleWithUser -AssignedUsers sddev\snapdrive
```

This example syntax creates a new role and assigns the specified user.

```
Description :
Name: TestRoleWithUser
Type:
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

Example 3: Creating a new role and assigning multiple users

```
New-SmRole -Name TestRoleWithUsers -AssignedUsers
"sddev\administrator,sddev\snapdrive"
```

This example syntax creates a new role and assigns multiple users to the role.

```
Description :
Name: TestRoleWithUsers
Type:
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

Example 4: Creating a new role and assigning a group

```
New-SmRole -Name TestRoleWithGroup -AssignedGroups sddev\administrators
```

This example syntax creates a new role and assigns the specified group to the role.

```
Description :
Name: TestRoleWithGroup
Type:
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

Example 5: Creating a role and assigning multiple groups

```
New-SmRole -Name TestRoleWithGroups -AssignedGroups
"sddev\administrators, sddev\Domain Admins"
```

This example syntax creates a new role and assigns multiple groups to the role.

```
Description :
Name: TestRoleWithGroups
Type:
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

Example 6: Creating a new role and assigning permissions

```
New-SmRole -Name TestRoleWithGroups -AssignedGroups
"sddev\administrators, sddev\Domain Admins"
```

This example syntax creates a new role and assigns the specified permissions the groups assigned to the role.

```
PS C:\> New-SmRole -Name TestRoleWithPermissions -Permissions "Host: read,
update, delete, create;dataset: read, update, create, delete;manageusergroup:
allow;Plugin_Installation: read, update"
Description :
Name: TestRoleWithPermissions
Type:
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

New-SmServerBackup

Creates a SnapCenter Server backup.

Syntax

```
New-SmServerBackup [-TargetPath] <String> [-TakeConfigBackupInHosts]
<SwitchParameter>
```

Detailed Description

Backups the SnapCenter Server at specified path.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
TargetPath	Specify the path where SnapCenter Server backup should be created.	true	true (ByPropertyName)	
TakeConfigBackupInHosts	Take backup of configs in all hosts.	false	false	

Examples

Example 1: Creating a SnapCenter Server backup

```
New-SmServerBackup -TargetPath E:\Data
```

This example creates a SnapCenter Server backup.

```
Name: SnapCenter Server backup
Id   : 55
StartTime   : 8/30/2023 5:48:43 PM
EndTime    : 8/30/2023 5:48:43 PM
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 100
Description   :
Status       : Running
Owner        :
Error        :
Priority     : None
Tasks       : {Precheck validation}
ParentJobID  : 0
EventId      : 0
JobTypeId    : 0
ApisJobKey   :
ObjectId     : 0
PluginCode   : NONE
PluginName   : NONE
HostId       : 0
RoleId       :
JobIds       : {}
ScsJobId     :
```

Example 2: Creating SnapCenter Server backup and host configuration files

```
New-SmServerBackup -TargetPath E:\Data -TakeConfigBackupInHosts
```

This example backs up the SnapCenter Server and the configuration files from all the hosts.

```
Name: SnapCenter Server backup
Id   : 55
StartTime   : 8/30/2023 5:48:43 PM
EndTime    : 8/30/2023 5:48:43 PM
IsCancellable   : False
IsRestartable   : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 100
Description   :
Status       : Running
Owner        :
Error        :
Priority      : None
Tasks        : {Precheck validation}
ParentJobID   : 0
EventId      : 0
JobTypeId     : 0
ApisJobKey    :
ObjectId      : 0
PluginCode    : NONE
PluginName    : NONE
HostId       : 0
RoleId       :
JobIds       : {}
ScsJobId      :
```

New-SmUnmountBackup

Initiates an unmount operation.

Syntax

```
New-SmUnmountBackup [-BackupName] <String>
```

Detailed Description

Initiates an unmount operation.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
BackupName	Specifies the name of the backup you want to unmount.	true	true (ByPropertyName)	

Examples

Example 1: Unmounting a backup

```
New-SmUnmountBackup -BackupName my_linux_10-20-2015_14.07.32.8158_0
```

This example syntax unmounts a mounted Oracle backup.

Open-SmConnection

Initiates a PowerShell connection session with SnapCenter, for a specified user.

Syntax

```
Open-SmConnection [-Credential] <PSCredential> [-SMSbaseUrl] <String>
[-Port] <String> [-RoleName] <String> [-AccessToken] <String>
```

Detailed Description

Initiates a PowerShell connection session with SnapCenter, for a specified user. The session is valid for 24 hours. To end a PowerShell connection session, exit PowerShell by either entering the Exit command at the PowerShell prompt, or by closing the PowerShell window. You can open separate PowerShell sessions to the same SnapCenter Server by using different user credentials for each session.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Credential	Provides domain user credentials for the user for whom you wish to establish a PowerShell session.	true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
SMSbaseUrl	Specifies the SnapCenter Server base URL. The base URL includes the name or IP address of the SnapCenter Server, and, if the remote system is in a different domain from that of the SnapCenter Server, the domain name. For example: https://SNAPCENTER_SERVER_NAME/DOMAIN_NAME .	false	true (ByPropertyName)	
Port	Enables you to specify the port number when the port is different than the default of 8146.	false	true (ByPropertyName)	
RoleName	If a user is assigned to multiple roles, specifies the role with which you want to log in.	false	true (ByPropertyName)	
AccessToken	Provides AccessToken parameter value from ADFS for MFA login in PowerShell.	false	true (ByPropertyName)	

Examples

Example 1: Opening a PowerShell session

```
Open-SmConnection
```

This command syntax opens a PowerShell session.

Example 2: Opening a PowerShell session with a specific role

```
Open-SmConnection -Credential sddev\administrator
```

This command syntax opens a PowerShell session for the specified role.

Example 3: Opening a PowerShell session to SnapCenter Server from a remote host using the SnapCenter Server name and domain in the base URL

```
Open-SmConnection -SMSbaseUrl https://SnapCenterServer1 -RoleName "SnapCenterAdmin"
```

This example syntax opens a PowerShell session to SnapCenter from a remote host in a different domain

using the SnapCenter Server name in the base URL and the specified role.

Example 4: Opening a PowerShell session from a remote host to SnapCenter using the SnapCenter Server IP address in the base URL

```
Open-SmConnection -SMSbaseUrl https://172.17.166.128:8146 -RoleName  
SnapCenterAdmin -Verbose
```

This example syntax opens a PowerShell session to SnapCenter from a remote host using the SnapCenter Server IP address in the base URL.

Example 5: Opening a PowerShell session using a port that is not the default

```
Open-SmConnection -Port 1694
```

This example syntax opens a PowerShell connection using a port that is different from the default port, 8146.

Example 6: Opening a PowerShell session from a remote host to SnapCenter using a base URL and a port that is not the default

```
Open-SmConnection -SMSbaseUrl https://SnapCenterServer1.netapp.com:8156
```

This examples syntax opens a PowerShell session to SnapCenter from a remote host using a base URL and a port that is not the default port, 8146.

Example 7: Opening a PowerShell session with AccessToken

```
Open-SmConnection -AccessToken  
eyJ0eXAiOiJKV0QiLCJhbGciOiJSUzI0NiIsIng0dCI0Ik0UbnZGTTNzMDdAjNFOF0ZmFY0cV  
I0BdFqRSIsImtpZCI0Ik0UbnZGTTNzMDdAjNFOF0ZmFY0cVI0BdFqRSJ0.eyJhbGciOiJIUzI  
1NiJ9.eyJSc2x1IjoiQWRtaW4iLCJlb2wiOiJBdWQiLCJTY29wZSI6ImlRlc3QiLCJJc3N1ZXIi  
OiJJC3N1ZXIiLCJvc2VybmFtZSI6ImlRlc3QiLCJUZXR0IjoiVGVzdCI6ImV4cCI6MTY4Mzg5MD  
g1MywiaWF0IjoxNjgzODkwODUzfQeyJSb2x1IjoiQWRtaW4iLCJlb2wiOiJBdWQiLCJTY29wZS  
I6ImlRlc3QiLCJJc3N1ZXIiOiJJC3N1ZXIiLCJvc2VybmFtZSI6ImlRlc3QiLCJUZXR0IjoiVGVz  
dCI6ImV4cCI6MTY4Mzg5MDg1MywiaWF0IjoxNjgzODkwODUzfQeyJSb2x1IjoiQWRtaW4iLCJb  
dWQiOiJBdWQiLCJTY29wZSI6ImlRlc3QiLCJJc3N1ZXIiOiJJC3N1ZXIiLCJvc2VybmFtZSI6I  
mlRlc3QiLCJUZXR0IjoiVGVzdCI6ImV4cCI6MTY4Mzg5MDg1MywiaWF0IjoxNjgzODkwODUzfQey  
JSb2x1IjoiQWRtaW400.h0ap0OmGcF_oacv00WZLT0umtt0v0N_dfyxym0Q0rjzB0hLudLgzRX  
AjmEzAXT-0wVfllnqfT0PBN0r0EXR0sWK0P00nA0QZ-  
m00o00uU_dcZJ0XmnOhRdEQZmdEuRZT0000t_gSuu00XsAVc0g-  
0BwRd0F0ks0dxoQeAEidiVch0ssOZpcJm0erqXd_U0AmcNiivB0wn0LBVKRuuALTneflIVpOA-  
UktoXBhrJn0jeIg0SAvveKX00hUA0hm0qctGyBhI0tmhAqh0_0m0G_XZRZt0g0SKRJA0YthXnu  
cKOn0BdoQx0c0GvcjjTuOi0B0tPnGj0Sh0RB00BUb0dQw00
```

This command syntax opens a PowerShell session for the MFA Login.

Protect-SmRepository

Sets the configuration that is required to create a backup of the SnapCenter database.

Syntax

```
Protect-SmRepository [-HostName] <String> [-Path] <String> [-Schedule]
<Hashtable> [-RetentionCount] <Int32>
```

Detailed Description

Sets the configuration that is required to create a backup of the SnapCenter database.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName	Specifies the SnapCenter database host name. If the SnapCenter database is hosted by a failover cluster instance (FCI), then specify the FCI owner host name.	true	true (ByPropertyName)	
Path	Specifies the NetApp destination disk path where MySQL dumps are stored. Virtual disks are not supported.	true	true (ByPropertyName)	
Schedule	Specifies in a hash table the schedule to use when backing up the repository. For example: -Schedule @{"ScheduleType"="hourly";"StartTime"="10/21/2016 5:18 PM"}	true	true (ByPropertyName)	
RetentionCount	Specifies the number of backups to retain. By default, 7 backups are retained.	false	true (ByPropertyName)	

Examples

Example 1: Configuring a database backup for MySQL DB

```
Protect-SmRepository -HostName NB-MVA-DEV057.nbsdsm.mycompany.netapp.in
-Path E:\DATA -Schedule @{"ScheduleType"="hourly";"StartTime"="10/21/2016
5:18 PM"}
```

This example syntax configures an hourly backup for the file system specified and uses the Path argument to indicate the NetApp disk path where the repository DB dumps will be placed.

Refresh-SmBackup

Clears the stale backup entries from the SnapCenter Server.

Syntax

```
Refresh-SmBackup [-AppObjectList] <String> [-CleanupAllObjects] <> [-Auth] <String>
```

Detailed Description

Clears the stale backup entries from the SnapCenter Server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
AppObjectList		false	true (ByPropertyName)	
CleanupAllObjects		false	true (ByPropertyName)	
Auth		false	true (ByPropertyName)	

Examples

Example 1: Clears the stale backup entries from the SnapCenter Server for all resources

```
Refresh-SmBackup -CleanupAllObjects
```

This example syntax clears the stale backup entries from the SnapCenter Server for all resources.

Example 2: Clears the stale backup entries from the SnapCenter Server by resource name

```
Refresh-SmBackup -AppObjectList R708202074BV1\SQL2019\MDSL_DB3
```

This example syntax clears the stale backup entries from the SnapCenter Server by resource name.

Refresh-SmSnapLock

Updates the SnapLock settings for backups through ONTAP.

Syntax

```
Refresh-SmSnapLock [-AppObjectList] <String> [-All] <> [-Auth]  
<String>
```

Detailed Description

Updates the SnapLock settings for primary as well as secondary backups including SnapLock for SnapVault through ONTAP.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
AppObjectList	Object id list	false	true (ByPropertyName)	
All	Refresh SnapLock Settings for all objects.	false	true (ByPropertyName)	
Auth	Authentication	false	true (ByPropertyName)	

Examples

Example 1: Updates the SnapLock settings for all the resources in the SnapCenter Server

```
Refresh-SmSnapLock -All
```

This example syntax updates the SnapLock settings for all the resources in the SnapCenter Server through ONTAP.

Example 2: Updates the SnapLock settings by resource name

```
Refresh-SmSnapLock -AppObjectList R708202074BV1\SQL2019\MDSL_DB3
```

This example syntax updates the SnapLock settings by resource name through ONTAP.

Example 3: Updates the SnapLock settings by resource name list

```
Refresh-SmSnapLock -AppObjectList  
R708202074BV1\SQL2019\MDSL_DB1,R708202074BV1\SQL2019\MDSL_DB2
```

This example syntax updates the SnapLock settings by resource name list through ONTAP.

Refresh-SmSyncSnapMirrorBackups

Sync the snapmirror backups.

Syntax

```
Refresh-SmSyncSnapMirrorBackups [-AppObjectList] <String> [-  
RefreshAllObjects] <>
```

Detailed Description

In a snapmirror active sync relationship when one site is down, backups are taken on the site which is up and running. When the site comes back online, ONTAP resync backups from the current primary to replica site which SnapCenter is not aware of. Executing this commandlet shall ensure consistency between ONTAP and SnapCenter for Application consistent backups across primary and replica site.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
AppObjectList	Object id list	false	true (ByPropertyName)	
RefreshAllObjects	Refresh backups for all app objects.	false	true (ByPropertyName)	

Examples

Example 1: Refresh sync backups of all the resources in the SnapCenter Server

```
Refresh-SmSyncSnapMirrorBackups -RefreshAllObjects
```

This example syntax sync all backups for all the resources in the SnapCenter Server through ONTAP.

Example 2: Refresh sync backups by resource name

```
Refresh-SmSyncSnapMirrorBackups -AppObjectList  
R708202074BV1\SQL2019\MDSL_DB3
```

This example syntax sync all backups by resource name through ONTAP.

Example 3: Refresh sync backups by resource name list

```
Refresh-SmSyncSnapMirrorBackups -AppObjectList  
R708202074BV1\SQL2019\MDSL_DB1,R708202074BV1\SQL2019\MDSL_DB2
```

This example syntax sync all backups by resource name list through ONTAP.

Remove-SmAlert

Removes the alert(s) from SnapCenter.

Syntax

```
Remove-SmAlert [-AlertIds] <String> [-EntityType] <SmEntityType> [-  
EntityName] <String> [-Severity] <SmAlertSeverity>
```

Detailed Description

Removes the alert(s) from SnapCenter. Either Alert Id(s) or Entity Type and Entity Name or Severity must be provided!

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
AlertIds	Specify the list of alert ids to be deleted.	false	true (ByPropertyName)	
EntityType	Specify the entity type of the alert(s) needs to be deleted. ("Server", "Host", "Storage")	false	true (ByPropertyName)	
EntityName	Specify the entity name of the alert(s) needs to be deleted.	false	true (ByPropertyName)	
Severity	Specify the severity of the alert(s) needs to be deleted. "Informational", "Warning", "Critical")	false	true (ByPropertyName)	

Examples

Example 1: Remove one or more alerts by id(s)

```
Remove-SmAlert -AlertIds 100,101
```

This example syntax removes the specified alerts from SnapCenter.

Remove-SmAlert

Are you sure you want to remove the alert(s) ?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

Example 2: Remove one or more alerts by id(s) without confirmation dialogue

```
Remove-SmAlert -AlertIds 100,101 -Confirm:$false
```

This example syntax removes the specified alerts from SnapCenter.

Example 1: Remove one or more alerts by EntityType and EntityName

```
Remove-SmAlert -EntityType Host -EntityName mtme.englab.netapp.com
```

This example syntax removes all the alerts of the given Host.

Remove-SmAlert

Are you sure you want to remove the alert(s) ?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

Example 1: Remove one or more alerts by Severity

```
Remove-SmAlert -Severity Warning
```

This example syntax removes all the warning alerts.

Remove-SmAlert

Are you sure you want to remove the alert(s) ?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

Remove-SmBackup

Removes one or more backup.

Syntax

```
Remove-SmBackup [-BackupNames] <String> [-BackupIds] <String> [-DeleteSecondaryMetadata] <> [-CleanupSecondaryBackups] <> [-SourceVolumes] <String> [-CleanupBackups] <> [-Force] <> [-Auth] <String> [-AppObjectId] <String>
```

Detailed Description

Removes one or more backup.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
BackupNames	Specifies the list of backup names to be deleted.	false	true (ByPropertyName)	
BackupIds	Specifies the list of backup ids to be deleted.	false	true (ByPropertyName)	
DeleteSecondaryMetadata	Specifies that the secondary backup metadata should be deleted.	false	true (ByPropertyName)	
CleanupSecondaryBackups	Specifies that the secondary backups that have no secondary Snapshot copies are cleaned up.	false	true (ByPropertyName)	
SourceVolumes	Specifies the source volumes whose secondary volumes are deleted. Use this option to clean-up the secondary backup metadata for the deleted volumes.	false	true (ByPropertyName)	
CleanupBackups	This cmdlet cleans up the backups that do not have Snapshot copies.	false	true (ByPropertyName)	
Force	Forces the removal of a backup.	false	true (ByPropertyName)	
Auth		false	true (ByPropertyName)	
AppObjectId		false	true (ByPropertyName)	

Examples

Example 1: Removing multiple backups using the backup ID

```
Remove-SmBackup -BackupIds 3,4
```

This example syntax removes multiple backups using the backup IDs.

Remove-SmBackup

Are you sure want to remove the backup(s).

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):

Example 2: Removing multiple backups using the backup name

```
Remove-SmBackup -BackupNames "Payroll Dataset_vise-f6_08-04-2015_12.01.56.2744","Payroll Dataset_vise f6_08-04-2015_12.02.27.8732"
```

```
Remove-SmBackup
Are you sure want to remove the backup(s).
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help
(default is "Y"):
BackupResult : {}
Result      : SMCoreContracts.SMResult
TotalCount  : 0
DisplayCount : 0
Context     :
Job        : SMCoreContracts.SmJob
```

Example 3: Removing secondary backup metadata

```
Remove-SmBackup -BackupIds 1 -DeleteSecondaryMetadata
```

This example syntax removes secondary backup metadata.

```
Remove-SmBackup
Are you sure want to remove the backup(s).
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help
(default is "Y"):
BackupResult : {}
Result      : SMCoreContracts.SMResult
TotalCount  : 0
DisplayCount : 0
Context     :
Job        : SMCoreContracts.SmJob
```

Example 4: Cleaning up secondary backups without a confirm dialogue

```
Remove-SmBackup -CleanupSecondaryBackups -Confirm:$false
```

This example syntax cleans up secondary backups that do not have secondary Snapshot copies.

```
BackupResult : {}
Result       : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount  : 0
Context      :
Job          : SMCoreContracts.SmJob
```

Example 5: Cleaning up secondary backups where secondary volume is deleted

```
Remove-SmBackup -CleanupSecondaryBackups -SourceVolumes
SVM1:Volume1,SVM2:Volume2
```

This example syntax cleans up the secondary backups that do not have any secondary snapshot copies or the secondary volumes are deleted for the specified source volumes.

```
BackupResult : {}
Result       : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount  : 0
Context      :
Job          : SMCoreContracts.SmJob
```

Remove-SmClone

Removes an existing clone.

Syntax

```
Remove-SmClone [-CloneName] <String> [-PluginCode] <PluginCode> [-
CloneAppObjectId] <String> [-Force] <> [-IsOracleAppVol] <String> [-
PreCloneDeleteScriptPath] <String> [-UnMountCommands] <String>
```

Detailed Description

Removes an existing clone.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
CloneName	Specifies the name of the clone you want to remove.	false	false	
PluginCode	Specifies the plug-in code for the plug-in host whose clone you want to remove.	true	false	
CloneAppObjectId	Specifies the ID of the clone application object.	false	false	
Force	Enables you to unregister a clone that has been removed outside of SnapCenter.	false	true (ByPropertyName)	
IsOracleAppVol	This is a Oracle Application Volume specific parameter. It specifies the flag which enables to provide Pre-clone Deletion script and Unmount cmds to be run before Oracle Application Volume Clone Deletion.	false	true (ByPropertyName)	
PreCloneDeleteScriptPath	This is an Oracle Application Volume specific parameter and IsOracleAppVol flag needs to be set to use this. It specifies absolute path of the executable script to be run before Clone deletion. The script should be located either at /var/opt/snapcenter/spl/scripts/ or any directory inside the path on the Oracle Plug-in host.	false	true (ByPropertyName)	
UnMountCommands	This is an Oracle Application Volume specific parameter and IsOracleAppVol flag needs to be set to use this. It specifies commands to unmount a file system from the Clone Host before Clone deletion. Enter multiple mount commands separated by semi colon (;).	false	true (ByPropertyName)	

Examples

Example 1: Removing a clone

```
Remove-SmClone -CloneName payrollclone_dataset__clone__08-05-2015_14.41.11
```

This example syntax removes the specified clone.

```
Remove-SmClone
Are you sure you want to remove the clone?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help
(default is "Y"): y
Name: Deleting clone 'payrollclone_dataset__clone__08-05-2015_14.41.11'
Id : 91
StartTime : 8/5/2015 2:47:14 PM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : False
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
```

Example 2: Removing a clone without the confirm dialogue

```
Remove-SmClone -CloneName payrollclone_dataset__clone__08-05-
2015_14.41.11 -Confirm:$false
```

This example syntax removes the specified clone.

```
Name: Deleting clone 'payrollclone_dataset__clone__08-05-2015_14.41.11'
Id   : 91
StartTime   : 8/5/2015 2:47:14 PM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : False
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId      : 0
```

Example 3: Removing an Oracle Application Volume clone with PreCloneDeletion Script and Unmount Command

```
Remove-SmClone -CloneName R8092776CF4V1_HNK2_com_appVol4__clone__3221_11-
06-2021_05.57.33 -PluginCode SCO -IsOracleAppVol -PreCloneDeleteScriptPath
"/var/opt/snapcenter/spl/scripts/preCloneDel.sh" -UnMountCommands "umount
/mnt/test"
```

This example syntax removes the specified Oracle Application Volume clone, PreCloneDeletion Script and Unmount Command are specified.

```

Remove-SmClone
    Are you sure you want to remove the clone?
    [Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend
[?] Help (default is "Y"):
    Name: Deleting clone
'R8092776CF4V1_HNK2_com_appVol4__clone__3221_11-06-2021_05.57.33'
    Id   : 3222
    StartTime   : 11/6/2021 6:35:42 AM
    EndTime     :
    IsCancellable   : False
    IsRestartable   : False
    IsCompleted    : False
    IsVisible      : True
    IsScheduled     : False
    PercentageCompleted : 0
    Description    :
    Status        : Queued
    Owner         :
    Error         :
    Priority      : None
    Tasks        : {}
    ParentJobID   : 0
    EventId       : 0
    JobTypeId     : 7
    ApisJobKey    :
    ObjectId      : 0
    PluginCode    : SCO
    PluginName    : SnapCenter Plug-in for Oracle Database
    HostId       : 0
    RoleId       :
    JobIds       : {}

```

Example 4: Removing an Oracle Application Volume clone

```

Remove-SmClone -CloneName R8092776CF4V1_HNK2_com_appVol4__clone__3221_11-
06-2021_05.57.33 -PluginCode SCO

```

This example syntax removes the specified Oracle Application Volume clone.

```

Remove-SmClone
    Are you sure you want to remove the clone?
    [Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend
[?] Help (default is "Y"):
    Name: Deleting clone
'R8092776CF4V1_HNK2_com_appVol4__clone__3221_11-06-2021_05.57.33'
    Id : 3222
    StartTime : 11/6/2021 6:35:42 AM
    EndTime :
    IsCancellable : False
    IsRestartable : False
    IsCompleted : False
    IsVisible : True
    IsScheduled : False
    PercentageCompleted : 0
    Description :
    Status : Queued
    Owner :
    Error :
    Priority: None
    Tasks : {}
    ParentJobID : 0
    EventId : 0
    JobTypeId : 7
    ApisJobKey :
    ObjectId: 0
    PluginCode : SCO
    PluginName : SnapCenter Plug-in for Oracle Database
    HostId : 0
    RoleId :
    JobIds : {}

```

Example 5: Removing a UnixFileSystems plug-in clone without the confirm dialogue

```

Remove-SmClone -CloneName
'RG_PS_linuxfs201_LVM1_12648__clone__2763__netapp_VGNFS1_LVM1_12-12-
2023_12.04.17' -PluginCode 'UnixFileSystems' -Confirm:$false

```

This example syntax removes the specified clone.

```

        Name: Deleting clone
'RG_PS_linuxfs201_LVM1_12648__clone__2763__netapp_VGNFS1_LVM1_12-12-
2023_12.04.17'
        Id   : 2764
        StartTime   : 12/12/2023 8:37:14 AM
        EndTime     :
        IsCancellable   : False
        IsRestartable  : False
        IsCompleted    : False
        IsVisible      : True
        IsScheduled    : False
        PercentageCompleted : 0
        Description    :
        Status        : Queued
        Owner         :
        Error         :
        Priority       : None
        Tasks         : {}
        ParentJobID   : 0
        EventId       : 0
        JobTypeId     : 7
        ApisJobKey    :
        ObjectId      : 0
        PluginCode    : SCC
        PluginName    : PluginCreator
        HostId        : 0
        RoleId        :
        JobIds        : {}
        ScsJobId      :

```

Remove-SmCloneJob

Removes an existing clone job.

Syntax

```
Remove-SmCloneJob [-CloneJobName] <String>
```

Detailed Description

Removes an existing clone job based on the name of the clone job provided.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
CloneJobName		true	true (ByPropertyName)	

Examples

- Example 1: Remove a clone job by clone job name -

```
Remove-SmCloneJob -CloneJobName cl2
```

This example syntax removes a clone job based on the name of the clone job provided.

Remove-SmCloneJob

Are you sure you want to perform this action?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): Y

No clones associated with 'cl2' Resource Group.

Deleted Protection Group 'cl2' successfully.

Deleted clone policy 'cl2_ClonePolicy' successfully.

- Example 2: Removes a clone job by clone job name without a confirmation dialogue. -

```
Remove-SmCloneJob -CloneJobName cl2 -Confirm:$false
```

This example syntax removes a clone job based on the name of the clone job provided.

Remove-SmCredential

Unregister a registered credential.

Syntax

```
Remove-SmCredential [-Name] <String>
```

Detailed Description

Remove a registered credential from the SnapCenter Server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name		true	true (ByPropertyName)	

Examples

Example 1: Remove Credential

```
Remove-SmCredential -Name RunAs1
```

Remove-SmDRFailoverBackups

After failback, delete special backups taken during failover.

Syntax

```
Remove-SmDRFailoverBackups [-AppObjectId] <> [-AppObjectId] <> [-BackupNames] <> [-AppObjectId] <> [-Primary] <>
```

Detailed Description

After failback, delete special backups taken during failover.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
AppObjectId	Specifies the application object identifier of an SQL database.	true	true (ByPropertyName)	
BackupNames	Specifies one or more backups of an application object to delete.	false	true (ByPropertyName)	
BackupIds	Specifies one or more backups of an application object to delete.	false	true (ByPropertyName)	
Primary	Specifies to delete backups from the primary storage.	false	true (ByPropertyName)	

Examples

Example 1: Delete all special backups of the SQL resources after failback from secondary

```
Remove-SmDRFailoverBackups -AppObjectId Host1\Inst\DB1
```

This example syntax deletes all the special backup of the resource from the storage where the backup was taken (secondary storage).

```
Remove-SmDRFailoverBackups
Are you sure you want to remove the backups?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?]
Help (default is "Y"): yes
Result : SMCoreContracts.SMResult
TotalCount : 0
DisplayCount : 0
Context :
Job : SMCoreContracts.SmJob
```

Example 2: Delete few special backups of the SQL resource after failback

```
Remove-SmDRFailoverBackups -AppObjectId Host1\Inst\DB1 -BackupNames
Backup1,Backup2
```

This example syntax deletes the specified special backups from the storage where the backup was taken (secondary storage).

```
Remove-SmDRFailoverBackups
Are you sure you want to remove the backups?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?]
Help (default is "Y"): yes
Result : SMCoreContracts.SMResult
TotalCount : 0
DisplayCount : 0
Context :
Job : SMCoreContracts.SmJob
```

Example 3: Delete all special backups of the SQL resources after failback from the secondary and the primary.

```
Remove-SmDRFailoverBackups -AppObjectId Host1\Inst\DB1 -Primary
```

This example syntax removes all the resource backups taken during failover from the secondary and the primary storage. For SnapMirror relationship, during subsequent SnapMirror update, deleted backups in the primary storage will be reflected in the secondary storage.

```

Remove-SmDRFailoverBackups
Are you sure you want to remove the backups?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?]
Help (default is "Y"): yes
Result : SMCoreContracts.SMResult
TotalCount : 0
DisplayCount : 0
Context :
Job : SMCoreContracts.SmJob

```

Example 4: Delete few special backups of the SQL resources after failback from the secondary and the primary.

```

Remove-SmDRFailoverBackups -AppObjectId Host1\Inst\DB1 -BackupNames
Backup1,Backup2 -Primary

```

This example syntax removes all the resource backups taken during failover from the secondary and the primary storage. For SnapMirror relationship, during subsequent SnapMirror update, deleted backups in the primary storage will be reflected in the secondary storage.

```

Remove-SmDRFailoverBackups
Are you sure you want to remove the backups?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?]
Help (default is "Y"): yes
Result : SMCoreContracts.SMResult
TotalCount : 0
DisplayCount : 0
Context :
Job : SMCoreContracts.SmJob

```

Remove-SmDomain

Unregister a registered domain.

Syntax

```

Remove-SmDomain [-Name] <String>

```

Detailed Description

Remove a registered domain from SnapCenter server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	NETBIOS Name of the registered domain to be removed.	true	true (ByPropertyName)	

Examples

Example 1: Unregister a registered domain from SnapCenter Server.

```
Remove-SmDomain -Name dom-newad01
```

Remove-SmDomain

The domain "dom-newad01" will be unregistered from SnapCenter Server and the domain users will no longer be able to access the SnapCenter Server.

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

Remove-SmGroup

Removes an AD group or local group from SnapCenter.

Syntax

```
Remove-SmGroup [-Group] <SmString> [-Domain] <String>
```

Detailed Description

Removes an Active Directory group or local group from SnapCenter.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Group	Single group or list of groups belonging to the same domain or local host.	true	true (ByPropertyName)	
Domain	The domain to which the group belongs to. Local group should skip this parameter.	false	true (ByPropertyName)	

Examples

Example 1: Removing a single group

```
Remove-SmGroup -Group group1 -Domain domain1
```

Example 2: Removing multiple groups of same domain

```
Remove-SmGroup -Group group1,group2 -Domain domain1
```

Example 3: Removing a local group

```
Remove-SmGroup -Group LocalGroup1
```

Remove-SmGroupFromRole

Removes a group from a specified role.

Syntax

```
Remove-SmGroupFromRole [-Domain] <String> [-Group] <SmString> [-  
RoleName] <String>
```

Detailed Description

Removes a group from a specified role.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Domain	Specifies the domain to which the group belongs.	false	true (ByPropertyName)	
Group	Specifies the group you want to remove from the role.	true	true (ByPropertyName)	
RoleName	Specifies the name of the role from which you want to remove a group.	true	true (ByPropertyName)	

Examples

Example 1: Removing a group from a role

```
Remove-SmGroupFromRole -Domain sddev -Group administrators -RoleName  
SnapcenterAdmin
```

This example syntax removes the specified group from the SnapCenterAdmin role.

Remove-SmGroupFromRole

Are you sure you want to unassign the group from role?.

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

Successfully UnAssigned Group From Role

Example 2: Removing a group from a role without confirm dialogue

```
Remove-SmGroupFromRole -Domain sddev -Group administrators -RoleName  
SnapcenterAdmin -Confirm:$false
```

This example syntax removes the specified group from the SnapCenterAdmin role.

Successfully UnAssigned Group From Role

Remove-SmHost

Removes one or more hosts from SnapCenter.

Syntax

```
Remove-SmHost [-HostNames] <String> [-Force] <> [-PluginCode]  
<PluginCode>
```

Detailed Description

Removes one or more hosts from SnapCenter. Note: For this command to succeed, the host you are removing must be resolvable in DNS or in the SnapCenter Server's hosts file. This applies even when you use the -force option.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostNames	Specifies one or more hosts that you want to remove. You can remove a cluster and all its nodes by specifying the cluster name.	true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
Force	Forces the removal of discovered resources and hosts. For Oracle databases, if the backup is cataloged, and you force deletion of a host, cataloged backups associated with that host are not uncataloged. Therefore, if you want to force delete an Oracle database host, you must first uncatalog all the cataloged backups for that host before forcing the deletion of the host.	false	true (ByPropertyName)	
PluginCode	Provides the plug-in code for the host you want to remove. Valid plug-in codes include SCSQL, SCO and SCV. For example, if you want to remove SnapCenter Plug-in for Microsoft SQL Server host, the plug-in code is SCSQL.	false	true (ByPropertyName)	
DoNotIncludeCluster Nodes	Specifies that the host plug-in packages are not uninstalled from cluster nodes. If you set the parameter to True, then the host package is uninstalled only from the specified host. The default value is False, which means that when you provide a cluster name, the host package is uninstalled from all nodes in the cluster.	false	true (ByPropertyName)	

Examples

Example 1: Removing a host without backups or clones

```
Remove-smhost -HostNames localhost
```

This example syntax removes a host from SnapCenter.

```
Remove-SmHost
Are you sure you want to remove the host and its resources.?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help
(default is "Y"): yName: Remove Host 'HostName'
Id : 44390
StartTime : 4/17/2017 2:07:51 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 10
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName :
```

Example 2: Removing a host without a confirm dialogue

```
Remove-smhost -HostNames localhost -Confirm:$false
```

This example syntax removes a host from SnapCenter.

```
Name: Remove Host 'Host name'
Id   : 44391
StartTime   : 4/17/2017 2:08:50 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 10
ApisJobKey    :
ObjectId      : 0
PluginCode    : NONE
PluginName    :
```

Example 3: Removing a host with backups and clones

```
Remove-smhost -HostNames localhost -Force
```

Delete the resource backups and clones associated with this host as part of the delete host operation.

```
Remove-SmHost
Are you sure you want to remove the host and its resources.?
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help
(default is "Y"): yName: Remove Host 'HostName'
Id : 44392
StartTime : 4/17/2017 2:10:09 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 10
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName :
```

Example 4: Removing a host with clones on an alternate host

```
Remove-smhost -HostNames localhost -Force -ForceDeleteClones
```

Delete resources that are cloned or mounted on an alternate host as part of the delete host operation.

```

Remove-SmHost
Are you sure you want to remove the host and its resources.?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help
(default is "Y"): yName: Remove Host 'HostName'
Id : 44392
StartTime : 4/17/2017 2:10:09 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 10
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName :

```

Remove-SmJobs

Removes completed jobs.

Syntax

```

Remove-SmJobs [-JobId] <Int32> [-StartTime] <DateTime> [-EndTime]
<DateTime> [-Auth] <String>

```

Detailed Description

Removes completed jobs using either the job ID of a specific job or all jobs within a specified date and time.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
JobId	Specifies the ID of the job you want to remove.	false	false	
StartTime	Specifies that jobs completed after the specified date and time should be removed.	false	false	
EndTime	Specifies that jobs completed before the specified date and time should be removed.	false	false	
Auth		false	false	

Examples

Example 1: Removing a job using a specific job ID

```
Remove-SmJobs -JobId 1002
```

This example syntax removes the job associated with the specified job ID.

Remove-SmJobs

Are you sure want to remove all the jobs(s) ?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

Example 2: Removing jobs completed within specific start and end dates without a confirm dialogue

```
Remove-SmJobs -StartTime 02/12/2015 -EndTime 07/02/2015 -Confirm:$false
```

This example syntax removes jobs completed between the specified beginning and end dates.

Remove-SmPermissionFromRole

Removes one or more permissions from a specified role.

Syntax

```
Remove-SmPermissionFromRole [-RoleName] <String> [-Permissions]
<String>
```

Detailed Description

Removes one or more permissions from a specified role. Use the format <SnapCenter Resource Name>:<Permission Name> where the SnapCenter Resource name is Dataset, Policy, Backup, Host, Storage Connection, Clone, Provision, Dashboard, Restore, Reports, Discovery, Plugin Install/Uninstall, Migration, Mount, and Unmount, and the permission name is create, read, update, delete and allow.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
RoleName	Specifies the name of the role from which you want to remove permissions.	true	true (ByPropertyName)	
Permissions	Specifies one or more permissions you want to remove from a role. Use the format <SnapCenter Role Name>:<Permission Name>. Permission include: create, read, update, delete and allow.	true	true (ByPropertyName)	

Examples

Example 1: Removing a specific permission from a role

```
Remove-SmPermissionFromRole -RoleName "Infrastructure Admin" -Permissions  
DataSet:create
```

This example syntax removes the specified permission from a role.

Remove-SmPermissionFromRole

Are you sure you want to unassign the permission from role?.

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

Example 2: Removing a specific permission from a role without a confirm dialogue

```
Remove-SmPermissionFromRole -RoleName "Infrastructure Admin" -Permissions  
DataSet:create -Confirm:$false
```

This example syntax removes the specified permission from a role.

Example 3: Removing multiple permissions from a role

```
Remove-SmPermissionFromRole -RoleName "Infrastructure Admin"  
-Permissions("Host:read","Host:update","Host:delete")
```

This example syntax removes multiple permissions from a role.

Remove-SmPlugin

Removes the specified plug-ins on one or more hosts.

Syntax

```
Remove-SmPlugin [-HostNames] <String> [-PluginCodes] <PluginCode> [-Force] <>
```

Detailed Description

Removes the specified plug-ins on one or more hosts.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostNames	Name of one or more hosts from which you want to uninstall the specified plug-ins.	true	true (ByPropertyName)	
PluginCodes	Provides the code for the plug-in you want to uninstall. Valid plug-in codes include SCSQL, SCO, SCE and hana. For custom plug-ins, the value is the custom plug-in name. For example "CustomPlugin1". For example, if you want to uninstall SnapCenter Plug-in for Microsoft SQL Server, the plug-in code is SCSQL.	true	true (ByPropertyName)	
Force	Internal switch.	false	true (ByPropertyName)	

Examples

Example 1: Uninstalling SnapCenter Plug-in for Microsoft SQL Server from a host

```
Remove-SmPlugin -HostNames myHostname -PluginCodes SCSQL
```

This command syntax uninstalls SnapCenter Plug-in for Microsoft SQL Server from the specified host.

Remove-SmPlugin

Are you sure you want to uninstall plugin(s) from the host(s)?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):

Example 2: Uninstall single plug-in from a single host without a confirmation dialogue

```
Remove-SmPlugin -HostNames host.example.com -PluginCodes DB2 -Verbose  
-Confirm:$false
```

Uninstall single Plug-in from single host

```
VERBOSE: Start Remove-SmPlugin  
Name: Plug-in Uninstallation on host  
'scspn0115971001.lab.eng.btc.netapp.in'  
Id : 56  
StartTime : 6/16/2016 1:37:25 AM  
EndTime :  
IsCancellable : False  
IsRestartable : False  
IsCompleted : False  
IsVisible : True  
IsScheduled : False  
PercentageCompleted : 0  
Description :  
Status : Queued  
Owner :  
Error :  
Priority: None  
Tasks : {}  
ParentJobID : 0  
EventId : 0
```

Example 3: Uninstall multiple plug-ins from multiple hosts without the confirm dialogue

```
Remove-SmPlugin -Hostnames myhostname1,myhostname2 -PluginCodes  
DB2,MongoDB -Confirm:$false
```

One main job will be created for removing plug-ins from the hosts. Separate tasks will be created for removing each of the plug-in from the host.

Remove-SmPluginPackage

Removes a custom plug-in package from the SnapCenter repository.

Syntax

```
Remove-SmPluginPackage [-PluginName] <String> [-PluginVersion] <String>
```

Detailed Description

Removes a custom plug-in package from the SnapCenter repository.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PluginName	Specifies the name of the plug-in package you want to remove.	true	false	
PluginVersion	Specifies the version of the plug-in you want to remove.	true	false	

Examples

Example 1: Removing a custom plugin package

```
Remove-SmPluginPackage -PluginName CustomPlugin -PluginVersion 1.0
```

This example syntax removes the 1.0 plug-in version of the custom plug-in named CustomPlugin from the SnapCenter repository.

Remove-SmPolicy

Removes one or more policies from SnapCenter.

Syntax

```
Remove-SmPolicy [-PolicyNames] <String>
```

Detailed Description

Removes one or more policies from SnapCenter. In order to delete polices from SnapCenter, you must have already detached them from any datasets with which they are associated.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PolicyNames	Identifies the policy you want to delete. You can provide an individual policy name or a comma-separated list.	true	true (ByPropertyName)	

Examples

Example 1: Deleting a policy from SnapCenter

```
Remove-SmPolicy -PolicyNames 'SQL Full Backup'
```

This example syntax removes a specified policy.

Remove-SmPolicy

Are you sure you want to remove the dataset policy. Its association with dataset also gets removed.?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):

Example 1: Deleting a policy from SnapCenter without confirmation dialogue

```
Remove-SmPolicy -PolicyNames 'SQL Full Backup' -Confirm:$false
```

This example syntax removes a specified policy.

Remove-SmProtectResource

This command helps remove the protection for the resources.

Syntax

```
Remove-SmProtectResource [-Resources] <Hashtable[]> [-Force] <> [-UnmanageOnly] <>
```

Detailed Description

Remove-SmProtectResource removes the protection for the resources provided.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Resources	The list of protected resources from which protection will be removed. You must provide the resource information in a hashtable, and it must contain the resource name and type, as well as the host on which the resource is located. For example, @{"Host"="localhost";"Type"="SQL Database";"Names"="Instance\Database"} Valid Type values are: SQL Database, SQL Instance, SQL Availability Group. You can include comma-separated values for Names. For Oracle Database, the format is -Resources @{"Host"="host.example.com";"Oracle Database"="db1"}. For Oracle Application Volume, the format is -Resources @{"Host"="host.example.com";"Application Volume"="appVol1"}.	true	true (ByPropertyName)	
Force	The force flag indicates that the protection will be deleted even if it has an associated policy and backup.	false	true (ByPropertyName)	
UnmanageOnly		false	true (ByPropertyName)	

Examples

Example 1: Removes the protection of the resources

```
Remove-SmProtectResource -Resources
@{"Host"="test.mycompany.com";"Type"="SQLDatabases";"Names"="test\SQLExpress\inst1"},@{"Host"="test.mycompany.com";"Type"="SQLDatabases";"Names"="test\SQLExpress\inst2"} -Force
```

This example syntax removes the protection of the two resources

Remove-SmProtectResource

Are you sure you want to delete the Protection of the selected resource?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):

Example 1: Removes the protection of the resources without confirmation dialogue

```
Remove-SmProtectResource -Resources
@{"Host"="test.mycompany.com";"Type"="SQLDatabases";"Names"="test\SQLExpress\inst1"},@{"Host"="test.mycompany.com";"Type"="SQLDatabases";"Names"="test\SQLExpress\inst2"} -Force -Confirm:$false
```

This example syntax removes the protection of the two resources

Example 3: Unprotecting a single volume

```
Remove-SmProtectResource -Resources
@{"Type"="StorageVolume";"ResourceGuids"="f37b4bae-72a2-48b3-8504-7cc8eef15031";}
```

Example 4: Unprotecting multiple volumes

```
Remove-SmProtectResource -Resources
@{"Type"="StorageVolume";"ResourceGuids"="f37b4bae-72a2-48b3-8504-7cc8eef15031,b806a86a-1374-4be1-bb83-fc0d33947a97";}
```

Example 5: Removes the protection of the Oracle Application Volume resources

```
Remove-SmProtectResource -Resources
@(@{"Host"="R8092776CF4V1.HNK2.com";"ApplicationVolume"="appVol1"},@{"Host"="R8092776CF4V1.HNK2.com";"ApplicationVolume"="appVol2"})
```

This example syntax removes the protection of the two Oracle application volume resources

Remove-SmProtectResource

Are you sure you want to delete the Protection of the selected resource?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):

Remove-SmReportSchedule

Delete a report schedule using this cmdlet.

Syntax

```
Remove-SmReportSchedule [-Name] <String>
```

Detailed Description

Delete an existing report schedule using this cmdlet.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Specify the schedule name to delete it.	true	true (ByPropertyName)	

Examples

Example 1: Delete a report schedule.

```
Remove-SmReportSchedule -Name schedule1
```

This example deletes a report schedule. Pass the name of the schedule to delete it.

Remove-SmRepositoryProtection

Removes the protection for the NSM database from SnapCenter Server.

Syntax

```
Remove-SmRepositoryProtection
```

Detailed Description

Removes the protection for NSM database from SnapCenter Server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	------------	----------------	---------------

Examples

Example : Removes the protection for the MySQL database from SnapCenter Server.

```
Remove-SmRepositoryProtection
```

This example syntax removes the protection for the MySQL database from SnapCenter Server.

Remove-SmResource

Removes a custom plug-in resource or an Oracle plug-in application volume resource.

Syntax

```
Remove-SmResource [-HostName] <String> [-PluginCode] <PluginCode>
```

Detailed Description

Enables you to delete a custom plug-in resource or an Oracle plug-in application volume resource from SnapCenter. This deletes only the SnapCenter object, not the actual application object. If the resource is protected, then the resource is only soft-deleted and is available for recall Undo-Resource cmdlet; otherwise, the resource is permanently deleted from SnapCenter.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName	Specifies the name of host from which you want to remove the resource.	true	true (ByPropertyName)	
PluginCode	Specifies the name of the plug-in associated with the resource you are removing. Possible inputs include HANA or any SCC Custom Plug-in name or SCO.	true	true (ByPropertyName)	
ResourceType	The type of application object. For example, instance, database, or a SAP HANA SingleContainer or MultipleContainers. This parameter is not applicable for Oracle application volume resource.	true	true (ByPropertyName)	
ResourceName	Specifies the name of the resource which you want to remove.	true	true (ByPropertyName)	
SID	This is a SAP HANA database specific parameter. A SAP HANA system is identified by a unique 3 letter system ID (SID). For example, ABC.	true	true (ByPropertyName)	
TenantDatabaseName	This is a SAP HANA database specific parameter. It is the name of the tenant database for SAP HANA Multitenant Database.	false	true (ByPropertyName)	

Examples

Remove a custom plugin resource

```
Remove-SmResource -HostName 'sccorelinux188.sscore.test.com' -PluginCode  
'DB2' -Instance INST -ResourceType Database -ResourceName Db1
```

Remove a resource of type Database of custom plug-in type DB2

A resource will be soft deleted (marked as deleted) if the resource being deleted contains backup or is protected.

Successfully removed Inventory sccorelinux188.sscore.test.com:DB2:INST1\Db1

Remove a custom plugin resource without confirmation dialogue

```
Remove-SmResource -HostName 'sccorelinux188.sscore.test.com' -PluginCode  
'DB2' -Instance INST -ResourceType Database -ResourceName Db1  
-Confirm:$false
```

Remove a resource of type Database of custom plug-in type DB2

A resource will be soft deleted (marked as deleted) if the resource being deleted contains backup or is protected.

Remove-SmResource

Are you sure you want to remove the resource?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):

```
Successfully removed Inventory  
sccorelinux188.sscore.test.com:DB2:INST1\Db1
```

Remove SAP HANA Multitenant Database Container

```
Remove-SmResource -HostName 'scspr0204312001.gdl.englab.netapp.com'  
-PluginCode 'hana' -ResourceType MultipleContainers -SID NBC  
-TenantDatabaseName ttt
```

Remove Multitenant Database Container of SnapCenter Plug-in for SAP HANA. A resource will be soft deleted (marked as deleted) if the resource being deleted contains backup or is protected.

Remove-SmResource

Are you sure you want to remove the resource?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):

```
Successfully removed Inventory  
scspr0204312001.gdl.englab.netapp.com:hana:NBC\ttt
```

Remove SingleContainer SAP HANA Database

```
Remove-SmResource -HostName 'scspr0204312001.gdl.englab.netapp.com'  
-PluginCode 'hana' -ResourceType SingleContainer -SID H14
```

Remove SingleContainer database of SnapCenter Plug-in for SAP HANA.

A resource will be soft deleted (marked as deleted) if the resource being deleted contains backup or is protected.

Remove-SmResource

Are you sure you want to remove the resource?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):

```
Successfully removed Inventory  
scspr0204312001.gdl.englab.netapp.com:hana:H14
```

Removes an Oracle Application Volume resource

```
Remove-SmResource -HostName 'R8092776CF4V1.HNK2.com' -PluginCode 'SCO'  
-ResourceName 'appVol'
```

Removes an Oracle application volume resource.

A resource will be soft deleted (marked as deleted) if the resource being deleted contains backup or is protected.

Remove-SmResource

Are you sure you want to remove the resource : 'appVol' ?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):

Successfully removed resource R8092776CF4V1.HNK2.com:SCO:appVol

Remove-SmResourceCredentialName

Unregister a registered SQL instance credential.

Syntax

```
Remove-SmResourceCredentialName [-ResourceName] <String>
```

Detailed Description

Unregister a registered SQL instance credential based on the parameters provided.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ResourceName		true	true (ByPropertyName)	

Examples

- **Example 1: Removes a registered SQL instance credential by the SQL instance name. -**

```
Remove-SmResourceCredentialName -ResourceName R708202074BV1\SQL2019
```

This example syntax removes a registered SQL instance credential based on the SQL instance name provided.

```
Remove-SmResourceCredentialName
```

Are you sure you want to perform this action?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): Y

Example 2: Removes a registered SQL instance credential by the SQL instance name without a confirmation dialogue.

```
Remove-SmResourceCredentialName -ResourceName R708202074BV1\SQL2019  
-Confirm:$false
```

This example syntax removes a registered SQL instance credential based on the SQL instance name provided.

Remove-SmResourceDRMode

Remove resources from disaster recovery mode.

Syntax

```
Remove-SmResourceDRMode [-HostNames] <> [-AppObjectIds] <>
```

Detailed Description

Remove the resources from disaster recovery mode.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostNames	Specifies one or more hosts (FQDN) to remove all the resources of the hosts from disaster recovery mode.	true	true (ByPropertyName)	
AppObjectIds	Specifies one or more application object identifier of an SQL database to remove from disaster recovery mode.	true	true (ByPropertyName)	

Examples

Example 1: Removing all resources of the host from disaster recovery mode

```
Remove-SmResourceDRMode -HostNames host1.gdl.netapp.com
```

This example syntax removes all the resources of the host from disaster recovery mode.

```
Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
```

Example 2: Removing all resources of multiple hosts from disaster recovery mode

```
Remove-SmResourceDRMode -HostNames
host1.gdl.netapp.com,host2.gdl.netapp.com
```

This example syntax removes all the resources of hosts from disaster recovery mode.

```
Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
```

Example 3: Removing all resources of the cluster host from disaster recovery mode

```
Remove-SmResourceDRMode -HostNames
Clusterhost.netapp.com,Node1.netapp.com,Node2.netapp.com
```

This example syntax removes all the resources of cluster host from disaster recovery mode. Specify cluster host with all the nodes.

```
Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
```

Example 4: Removing SQL resource from disaster recovery mode

```
Remove-SmResourceDRMode -AppObjectIds Host1/Inst1/DB1
```

This example syntax removes SQL resource from disaster recovery mode.

```
Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
```

Example 5: Removing multiple SQL resources from disaster recovery mode

```
Remove-SmResourceDRMode -AppObjectIds Host1/Inst1/DB1,Host1/Inst1/DB2
```

This example syntax removes SQL resources from disaster recovery mode.

```
Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
```

Remove-SmResourceFromUser

Removes a SnapCenter resource assigned to specified user.

Syntax

```
Remove-SmResourceFromUser [-UserName] <String> [-ResourceNames]
<String> [-ResourceType] <OperationAssignmentType> [-
UserGroupObjectType] <SmUserGroupObjectType>
```

Detailed Description

Remove a SnapCenter resource assigned to specified user.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
UserName	Name of the domain\user.	true	true (ByPropertyName)	
ResourceNames	Name of the resources to be removed. Allow comma seperated resources names.The resource name is the policy name, resource group name, storage connection name, credential name, host name or IP address, or plug-in name created by the user.	true	true (ByPropertyName)	
ResourceType	Type of resource. The SnapCenter resource types are Credential, Host, ResourceGroup, Policy, StorageConnection or Plugin.	true	true (ByPropertyName)	
UserGroupObjectType	Specifies the user type whose resources are removed. Possible values are User or Group.	false	true (ByPropertyName)	

Examples

Example 1: Removing a specific resource from a user

```
Remove-SmResourceFromUser -ResourceNames PayrollDataset -ResourceType
ResourceGroup -UserName mva\administrator
```

This example syntax removes the specified resource name from the user indicated.

Remove-SmResourceFromUser

Are you sure want to perform this action?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):y

Example 2: Removing a specific resource from a user without confirmation dialogue

```
Remove-SmResourceFromUser -ResourceNames PayrollDataset -ResourceType  
ResourceGroup -UserName mva\administrator -Confirm:$false
```

This example syntax removes the specified resource name from the user indicated.

Example 3: Removing a specific resource from a group.

```
Remove-SmResourceFromUser -ResourceNames PayrollDataset -ResourceType  
ResourceGroup -UserName mva\group1 -UserGroupObjectType Group
```

This example syntax removes the specified resource name from the identified group.

Remove-SmResourceGroup

Removes a resource group.

Syntax

```
Remove-SmResourceGroup [-ResourceGroupNames] <String> [-Force] <>
```

Detailed Description

Enables you to delete a resource group from SnapCenter based on the resource group name provided.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ResourceGroupNames		true	true (ByPropertyName)	
Force		false	true (ByPropertyName)	

Examples

- Example 1: Removes a resource group by the resource group name -

```
Remove-SmResourceGroup -ResourceGroupNames RG2
```

This example syntax removes a resource group from SnapCenter based on the resource group name provided.

Remove-SmResourceGroup

Are you sure you want to delete the Resource Group selected?Resource Group will be removed from all the member hosts of the Resource Group. The backups of the Resource Group will be deleted when the Resource Group is removed. Also all the association of policy with this Resource Group will be detached.

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): Y

- **Example 2: Removes the resource group by resource group name without a confirmation dialogue.** -

```
Remove-SmResourceGroup -ResourceGroupNames RG2 -Confirm:$false
```

This example syntax removes a resource group from SnapCenter based on the resource group name provided.

Remove-SmRole

Removes an RBAC role.

Syntax

```
Remove-SmRole [-Name] <String>
```

Detailed Description

Removes an RBAC role.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Names the RBAC role you want to delete.	true	true (ByPropertyName)	

Examples

Example 1: Removing a specific role

```
Remove-SmRole -Name BackupAdmin
```

This example syntax removes the specified role from SnapCenter.

Remove-SmRole

Are you sure you want to remove the role ?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

Example 2: Removing a specific role without confirmation dialogue

```
Remove-SmRole -Name BackupAdmin -Confirm:$false
```

This example syntax removes the specified role from SnapCenter.

Remove-SmServer

Removes the SC server from the High Availability cluster.

Syntax

```
Remove-SmServer [-Credential] <PSCredential> [-ServerNameString]  
<String> [-ServerIPString] <String>
```

Detailed Description

Removes the given SC server from the High Availability cluster. The SC server should be removed from the load balancing configuration and, SnapCenter should be uninstalled on the server to be removed.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Credential	Provides domain user credentials for the user to remove High Availability cluster configuration.	true	true (ByPropertyName)	
ServerName	Secondary SC server name.	false	false	
ServerIP	Secondary SC server IP Address.	true	false	

Examples

Example 1: Removing SnapCenter Server from High Availability cluster

```
Remove-SmServer -Credential sddev\administrator -ServerIP 10.225.231.178  
-ServerName SecondServer.domain.com
```

This example removes SnapCenter Server from High Availability cluster.

```

Remove-SmServer -ServerIP 10.225.231.178
WARNING: Uninstallation of SnapCenter Server on secondary node is
recommended.
Name: Removing SnapCenter Server 10.225.231.178 from High Availability
Cluster
Id      : 1606
StartTime    : 9/25/2019 1:23:11 AM
EndTime     :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled     : False
PercentageCompleted : 100
Description   :
Status       : Running
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 38
ApisJobKey    :
ObjectId      : 0
PluginCode    : NONE
PluginName    : NONE
HostId        : 0
RoleId        :
JobIds        : {}

```

Remove-SmServerCluster

Removes the High Availability cluster configuration on the SnapCenter Server

Syntax

```

Remove-SmServerCluster [-Credential] <PSCredential> [-ClusterNameString]
<String> [-ClusterIPString] <String>

```

Detailed Description

Removes the High Availability cluster configuration on the SnapCenter Server. This can be used to convert to Standalone configuration.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Credential	Provides domain user credentials for the user to remove High Availability cluster configuration.	true	true (ByPropertyName)	
ClusterName	F5 cluster name.	false	false	
ClusterIP	F5 Cluster IP Address.	true	false	

Examples

Example 1: Removing High Availability cluster configuration on the SnapCenter Server

```
Remove-SmServerCluster -Credential sddev\administrator -ClusterIP  
10.235.236.190 -ClusterName f5pool
```

This removes the High Availability cluster configuration on the SnapCenter Server.

```
Name: Remove High Availability for SnapCenter Server
Id   : 972
StartTime   : 10/5/2019 6:19:26 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Running
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 38
ApisJobKey    :
ObjectId      : 0
PluginCode    : NONE
PluginName    : NONE
HostId       : 0
RoleId        :
JobIds        : {}
Monitor the progress of job 972 in the Job Monitor page or by running the
cmdlet: 'Get-SmJobSummaryReport -JobId 972'
```

Remove-SmStorageConnection

Removes a storage system connection.

Syntax

```
Remove-SmStorageConnection [-Storage] <String> [-AzureNetAppAccountIds]
<bigint(20)>
```

Detailed Description

Removes a storage system connection. You can remove one storage system connection at a time.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Storage		false	true (ByPropertyName)	

Examples

Example 1: Removing a storage system connection

```
Remove-SmStorageConnection -SVM 172.17.168.13
```

This example syntax removes a storage system connection

```
Remove-SmStorageConnection
```

Are you sure you want to remove the storage connection?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

Remove Storage connection successful

Example 2: Removing a storage system connection without confirmation dialogue

```
Remove-SmStorageConnection -SVM 172.17.168.13 -Confirm:$false
```

This example syntax removes a storage system connection

Remove Storage connection successful

Example 3: Removing Azure NetApp Account

```
Remove-SmStorageconnection -AzureNetAppAccountIds 1
```

This example removes Azure NetApp Accounts with specified Azure NetApp Account IDs.

Remove-SmUser

Removes AD users or local workgroup users from SnapCenter.

Syntax

```
Remove-SmUser [-UserName] <SmString> [-Domain] <String>
```

Detailed Description

Removes Active Directory users or local workgroup users from SnapCenter.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
UserName	Single user or list of users belonging to the same domain or workgroup.	true	true (ByPropertyName)	
Domain	The domain to which the user belongs to. Workgroup users should skip this parameter.	false	true (ByPropertyName)	

Examples

Example 1: Removing a single user 1

```
Remove-SmUser -UserName user1 -Domain domain1
```

Example 2: Removing multiple users of same domain 2

```
Remove-SmUser -UserName user1,user2 -Domain domain1
```

Example 3: Removing workgroup user

```
Remove-SmUser -UserName LocalUser1
```

Remove-SmUserFromRole

Deletes a user from an RBAC role.

Syntax

```
Remove-SmUserFromRole [-UserName] <SmString> [-RoleName] <String> [-Domain] <String>
```

Detailed Description

Deletes a user from an RBAC role.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
UserName	Specifies the user you want to remove from the RBAC role.	true	true (ByPropertyName)	
RoleName	Specifies the name of the role from which you want to remove the user.	true	true (ByPropertyName)	
Domain	Domain to which user belongs to. Workgroup users should skip this parameter.	false	true (ByPropertyName)	

Examples

Example 1: Deleting a role from a specific user

```
Remove-SmUserFromRole -UserName administrator -Domain mva -RoleName BackupAdmin
```

This example syntax removes the specified user from a role.

```
Remove-SmUserFromRole
```

Are you sure you want to unassign the user from role?.

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

```
BackupAdmin
```

```
mva\administrator
```

Example 2: Deleting a role from a specific user without confirmation dialogue

```
Remove-SmUserFromRole -UserName administrator -Domain mva -RoleName BackupAdmin -Confirm:$false
```

This example syntax removes the specified user from a role.

```
Remove-SmUserFromRole
```

```
BackupAdmin
```

```
mva\administrator
```

```
===
```

Remove-SmVerificationServer

Removes one or more verification servers.

Syntax

```
Remove-SmVerificationServer [-Names] <String>
```

Detailed Description

Removes one or more verification servers. When you run Remove-SmVerificationServer, you do not remove the SQL Server instance you are using as the verification server, you simply remove the verification server settings so that the SQL Server instance can no longer be used as a SnapCenter verification server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Names	Specifies the names of the verification server or servers you want to remove.	true	true (ByPropertyName)	

Examples

Example 1: Removing a verification server

```
Remove-SmVerificationServer -Names mva-s51/instance1
```

This example syntax removes a verification server.

```
Remove-SmVerificationServer
```

Are you sure you want to remove the host and its resources.?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

Example 2: Removing a verification server without confirmation dialogue

```
Remove-SmVerificationServer -Names mva-s51/instance1 -Confirm:$false
```

This example syntax removes a verification server.

.

Rename-SmBackup

Renames an existing backup.

Syntax

```
Rename-SmBackup [-BackupName] <String> [-NewBackupName] <String> [-  
PluginType] <PluginCode>
```

Detailed Description

Renames an existing backup.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
BackupName	Name of the existing backup.	true	false	
NewBackupName	The new name you will give the backup.	true	false	
PluginType	Provides the SnapCenter plug-in type. You can specify one of the following: SCSQL or SCW.	true	false	

Examples

Example 1: Renames an existing backup

```
Rename-SmBackup -BackupName SQL_DATASET_CLONE_csmdev-smsql-02_08-03-  
2015_13.45.19.4400  
                -NewBackupName SQL_DATASET_CLONE_RENAMED -PluginType SCSQL  
-Verbose
```

This example command syntax renames an existing backup to a new name that you specify.

VERBOSE: Start Rename-SmBackup

VERBOSE: Rename-SmBackup ended successfully.

Reseed-SmBackup

Restores the particular database and joins it back to the Availability Group.

Syntax

```
Reseed-SmBackup [-PluginCode] <PluginCode> [-AppObjectId] <String> [-  
BackupName] <String>
```

Detailed Description

Restores the particular database and joins it back to the Availability Group. This operation is supported only with the database of secondary replica.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PluginCode		false	false	
AppObjectId		true	false	
BackupName		false	false	

Examples

Example 1: Reseed Secondary Database of an availability Group

```
Reseed-SmBackup -AppObjectId CHAN-  
New\INST4\Auto_DB_CHAN_ESX7_INST1_MDML_1
```

This example syntax reseeds the secondary copy of the database mentioned by the appobjectId and brings it to sync with primary database and joins the database back to Availability Group.

Reseed-SmDagReplicaCopy

This command will restore or reseed the failed copy of the database.

Syntax

```
Reseed-SmDagReplicaCopy [-ReplicaHost] <String> [-Database] <String>  
[-BackupHost] <String>
```

Detailed Description

Restores an unhealthy replica by using either the most recent copy on the same host or the most recent copy from an alternate host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ReplicaHost		true	false	
Database		true	false	
BackupHost		false	false	

Examples

Example 1: Reseed a replica

```
reseed-SmDagReplicaCopy -ReplicaHost "mva-rx200.netapp.com" -Database  
execdb -BackupHost "mva-rx201.netapp.com"
```

Restore-SmBackup

Restores a backup.

Syntax

```
Restore-SmBackup [-PluginCode] <PluginCode> [-AppObjectId] <String> [-  
BackupId] <String> [-BackupName] <String> [-LogRestoreType]  
<SmSqlLogRestoreType> [-RestoreWhenOnline] <> [-  
RetainReplicationSettings] <> [-CreateTransactionLog] <> [-  
FailOnTransactionLogBackupFailure] <> [-RecoveryModel]  
<SmSqlRecoveryModel> [-UndoLogDirectory] <String> [-Archive]  
<Hashtable[]> [-AuxiliaryDestination] <String> [-LogArchive]  
<Hashtable[]> [-AlternatePath] <Hashtable[]> [-LogCount] <Int32> [-  
LogCutOffDateTime] <DateTime> [-FailOnLogBackupFailure] <> [-  
SceRecoveryModel] <SCERecoveryModel> [-ExistingFiles] <> [-TargetHost]  
<String> [-NoVerify] <> [-IsRecoverMount] <> [-PreScriptCommand]  
<String> [-PreScriptArguments] <String> [-SQLInstanceName] <String>  
[-DatabaseName] <String> [-CustomLogDirectory] <String> [-  
RecoveryTypeHanaRecoveryType] <HanaRecoveryType> [-  
RecoveryTypePostgreSQLRecoveryType] <PostgreSQLRecoveryType> [-  
RecovertimezoneString] <> [-TenantDatabaseNameString] <String> [-  
VolumeRevertSwitchParameter] <> [-PostScriptCommand] <String> [-  
PostScriptArguments] <String> [-ScriptTimeOut] <Int32> [-  
OracleControlFileRestore] <> [-OracleFullRestore] <> [-  
OracleSkipRecovery] <> [-OracleUntilScn] <Int64> [-OracleTablespaces]  
<String> [-OracleChangeState] <> [-OraclePluggableDatabases] <String>  
[-AlternateArchiveLogsPath] <String> [-OracleOpenDatabaseAfterRecovery]  
<> [-OracleUntilTime] <DateTime> [-RestoreLastBackup] <Int32> [-  
RestoreOnClusterHost] <String> [-RestoreOracleRedoLogFile] <> [-  
OracleOpenPluggableDatabasesAfterRecovery] <> [-  
OracleOpenTablespacesAfterRecovery] <> [-ForceInplaceRestore] <> [-  
PluginCreatorCustomRestoreParams] <Hashtable> [-EnableEmail] <> [-  
EmailPreference] <SmEmailNotificationPreference>
```

Detailed Description

Restores a backup. You can specify whether to restore log files or not, and the types of log files. You can restore databases even if existing databases are online.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PluginCode	Specifies the plug-in code of the resource to be restored. Valid plug-in codes are SCW and SCSQL.	true	false	
AppObjectId	Specifies the ID of the application object.	true	false	
BackupId	Specifies the ID of the backup to use for restore.	false	false	
BackupName	Specifies the name of the backup to use for restore.	false	false	
LogRestoreType	Specifies the log restore type. User can choose to apply no logs, all logs or specific logs.	false	false	
RestoreWhenOnline	Restore databases even if existing databases are online.	false	false	
RetainReplicationSettings	Retain SQL database replication settings.	false	false	
CreateTransactionLog	Create transaction log backup before restore.	false	false	
FailOnTransactionLogBackupFailure	Quit restore if transaction log backup fails before restore.	false	false	
RecoveryModel	Specifies the SQL recovery model for applying logs.	false	false	
UndoLogDirectory	Specifies a location where the standby files are created, so that the recovery effects can be reversed.	false	false	
Archive	Specifies the secondary storage system details for restore.	false	false	

Name	Description	Required ?	Pipeline Input	Default Value
AlternatePath	Specifies an alternate location to restore the database.	false	false	
LogCount	Specifies the number of logs to apply.	false	false	
AuxiliaryDestination	Auxiliary destination on the database host required to perform Oracle point in time recovery.	false	false	
LogArchive	Specify the archive location of the archive logs from where the Oracle database resource is to be restored	false	false	
LogCutOffDateTime	Specifies the cutoff time to restore the database. If the server and plug-in host are in different time zones, the input must be as per the plug-in host time zone.	false	false	
FailOnLogBackupFailure		false	false	
SceRecoveryModel		false	false	
ExistingFiles	Restore from Existing files specified in AlternatePath.	false	false	
TargetHost		false	false	
NoVerify		false	false	
IsRecoverMount		false	false	
PreScriptCommand	Specifies commands that get executed before the restore operation.	false	true (ByPropertyName)	
PreScriptArguments	Specifies arguments to the prescript command.	false	true (ByPropertyName)	
SQLInstanceName	Specifies the SQL Server instance to which the database is restored in an alternate path scenario.	false	false	
DatabaseName	Specifies the new database name when restoring the database to an alternate path.	false	false	

Name	Description	Required ?	Pipeline Input	Default Value
CustomLogDirectory	This parameter is required for specifying a custom path, either a network share path or a drive path, where you have stored the logs. This parameter is used for restore operations from both primary and secondary copies.	false	false	
RecoveryType	Specifies the recovery type for HANA resources.	false	false	
Recovertimezone	Timezone of the client. This parameter is applicable to HANA plug-in resource when the RecoveryType specified is 'RecoverUntilDateTime'. Acceptable format: GMT+HH:MM or GMT-HH:MM.	false	false	
TenantDatabaseName	Name of the HANA tenant database to be restored. This parameter is applicable to MultiTenant Database Containers resources. No recovery will be performed for the specified tenant database.	false	false	
VolumeRevert	Enables file system restore in case of Complete Restore for Auto-discovered resources. This parameter is used mainly for auto-discovered resource backups and this option can be used to prevent volume based restore and cleaning up of later backups if an older backup is selected for restore.	false	false	
PostScriptCommand	Specifies the commands that get executed after the restore operation.	false	true (ByPropertyName)	
PostScriptArguments	Specifies the arguments to the postscript command.	false	true (ByPropertyName)	
ScriptTimeout	Specifies the maximum timeout to wait for the script to complete.	false	true (ByPropertyName)	
OracleControlFileRestore	Indicates that you want to restore the Oracle control file.	false	false	
OracleFullRestore	Indicates that you want to perform a full Oracle database restore.	false	false	

Name	Description	Required ?	Pipeline Input	Default Value
OracleSkipRecovery	Indicates that you want to skip Oracle database recovery.	false	false	
OracleUntilScn	Indicates that you want to restore to a specific System Change Number.	false	false	
OracleTablespaces	Indicates the Pluggable database (PDB) tablespaces to be restored.	false	false	
OracleChangeState	Indicates that the database state should be changed to the state required to perform restore and recovery operations. The states of a database from higher to lower are open, mounted, started, and shutdown.	false	false	
OraclePluggableDatabases	Indicates the Pluggable databases to be restored.	false	false	
AlternateArchiveLogPath	Indicates an alternate archive logs path.	false	false	
OracleOpenDatabaseAfterRecovery	Specifies that the databases must be opened after recovery is performed.	false	false	
OracleUntilTime		false	false	
RestoreLastBackup	Restore the Nth Backup of a resource with provided AppObjectId. For example, value entered as 5 with AppObjectId "testResource", it will restore the 5th backup for resource found with AppObjectId "testResource" provided that at least 5 backups are available.	false	false	
RestoreOnClusterHost	Specifies the cluster node on which the restore operation must be performed. You must specify this option only for an Oracle RAC database. If this option is not specified, restore operation is performed on the node where the backup was created.	false	false	
RestoreOracleRedoLogFile	Indicates that you want to restore Oracle redo log files. Redo log file restore is only supported for Data Guard and Active Data Guard standby database.	false	false	

Name	Description	Required ?	Pipeline Input	Default Value
OracleOpenPluggableDatabasesAfterRecovery	Specifies that the pluggable databases must be opened after recovery is performed.	false	false	
OracleOpenTablespacesAfterRecovery	Specifies that the tablespaces must be opened after recovery is performed.	false	false	
ForceInplaceRestore	Indicates that you want to perform in-place restore and bypass all restore validations.	false	false	
PluginCreatorCustomRestoreParams		false	false	
EnableEmail	Enables e-mail.	false	false	
EmailPreference	Specifies when you will receive e-mail notifications. Possible values: Always, Never, OnError, OnErrorOrWarning.	false	false	
EmailFrom	Specifies the sender's e-mail address.	true	true (ByPropertyName)	
EmailTo	Specifies the recipient's e-mail address.	true	true (ByPropertyName)	
EmailSubject	Specifies the e-mail subject.	true	true (ByPropertyName)	
EnableEmailAttachment	Enables email attachments.	false	true (ByPropertyName)	

Examples

Example 1: Restoring from a primary backup

```
PS C:\> Restore-SmBackup -PluginCode SCSQL -AppObjectId 'vise-f6\PayrollDatabase' -BackupName 'NetApp_PayrollDataset_Backup Policy_vise-f6_NetApp_08-07-2015_08.48.59.6962' -RestoreWhenOnline
```

This example syntax restores from a primary backup.

```
Name: Restore 'vise-f6\PayrollDatabase'
Id   : 199
StartTime   : 8/7/2015 9:21:36 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : False
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId      : 0
```

Example 2: Restoring to an alternate path from a primary

```
PS C:\> Restore-SmBackup -PluginCode SCSQL -AppObjectId 'vise-
f6\PayrollDatabase' -BackupName 'NetApp_PayrollDataset_Backup Policy_vise-f6_NetApp_08-07-
2015_08.48.59.6962' -AlternatePath @{Source='I:\PayrollDatab
ase.mdf';Destination='H:\PayrollDatabase_copy_log.mdf'},@{Source='I:\Payro
llDatabase_log.ldf';Destination='H:\PayrollDat
abase_copy_log.ldf'} -SQLInstanceName 'vise-f6\BRAVEHEART'
-DatabaseName 'PayrollDatabase_copy'
```

This example syntax restores a backup to an alternate path

```
Name: Restore 'vise-f6\PayrollDatabase'
Id   : 203
StartTime   : 8/7/2015 9:30:32 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : False
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId      : 0
```

Example 3: Restoring from a secondary backup

```
PS C:\> Restore-SmBackup -PluginCode SCSQL -AppObjectId 'vise-
f6\PayrollDatabase' -BackupName 'NetApp_PayrollDataset_Backup Policy_vise-f6_NetApp_08-07-
2015_08.48.59.6962' -Archive @{Primary="rtp-rr1-d2.gdl.englab.netapp.com:vol_src";Secondary="vs1:vs1_vol_src_vault"}
-RestoreWhenOnline
```

This example syntax restores from a secondary backup.

```
Name: Restore 'vise-f6\PayrollDatabase'
Id : 208
StartTime : 8/7/2015 9:40:12 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : False
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
```

Example 4: Removing a Run As account from a resource

```
PS C:\> Restore-SmBackup -PluginCode SCSQL -AppObjectId 'vise-
f6\PayrollDatabase' -BackupName 'Mycompany_PayrollDataset_Backup Policy_vise-f6_Mycompany_08-
07-2015_08.48.59.6962' -Archive @{Primary="rtp-rr1-
d2.gdl.mycompany.com:vol_src";Secondary="vs1:vs1_vol_src_vault"}
-RestoreWhenOnline -AlternatePath @{Source='I:\PayrollDatabase.
mdf';Destination='H:\PayrollDatabase_copy_log.mdf'},@{Source='I:\PayrollDa
tabase_log.ldf';Destination='H:\PayrollDatabas
e_copy_log.ldf'} -SQLInstanceName 'vise-f6\BRAVEHEART'
-DatabaseName 'PayrollDatabase_copy'
```

This example syntax removes a Run As account from a resource.

```

Name: Restore 'vise-f6\PayrollDatabase'
Id : 210
StartTime : 8/7/2015 9:46:54 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : False
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0

```

Example 5: Restore complete Resource of Custom plugin DB2 from Primary Storage

```

Restore-SmBackup -PluginCode 'DB2' -AppObjectId
'sccorelinux61.sscore.test.com\DB2\NTP\DB1' -BackupId 191 -Confirm:$false
-mountcommands 'sh /var/opt/mountCmd.sh' -unmountcommands 'sh
/var/opt/unmountCmd.sh'

```

Restore complete Resource of type Database of Custom plug-in DB2 from Primary Storage with mount and unmount commands

Example 6: Restore Complete custom plugin resource from Secondary storage

```

Restore-SmBackup -PluginCode 'DB2' -AppObjectId
'sccorelinux61.sscore.test.com\DB2\SECONDARYSMSV1' -BackupId 198
-Confirm:$false -customrestoreparams @{"KEY_PARAM1"="CUSTPARAM1"}
-prescriptarguments 'PreScriptCommand > PreScriptCommand.txt'
-prescriptcommand echo -postscriptarguments 'PostScriptCommand >
PostScriptCommand.txt' -postscriptcommand echo -Archive @(
@{"Primary"="vserver_scauto_primary:SMSV1_SRC_sscorelinux61_sscore_test_co
m";"Secondary"="vserver_scauto_primary:SMSV1_DST3_sscorelinux61_sscore_tes
t_com"})

```

Restore Complete custom plug-in resource from Secondary storage with custom key-value pairs and pre-post commands

Example 7: Restore files/LUNs from Primary storage of Custom plugin resource

```
Restore-SmBackup -PluginCode 'DB2' -AppObjectId  
'sccorelinux61.sscore.test.com\DB2\RVOL' -BackupId 313 -Confirm:$false  
-path  
vserver_scauto_primary:/vol/ng_rvol1_sscorelinux61_sscore_test_com/file1,v  
server_scauto_primary:/vol/ng_rvol2_sscorelinux61_sscore_test_com/file1
```

Restoring multiples files from multiple/single volumes can be combined together

Example 8: Restoring to a cluster host

```
Restore-SmBackup -PluginCode 'SCO' -AppObjectId 'smo-suse-  
11g.gdl.englab.netapp.com\itdb' -BackupName 96skdb_smo-suse-11g_02-15-  
2017_18.11.43.3978_0 -oraclechangestate -RestoreOnClusterHost  
'clusterhost.com'
```

Restore to a cluster host. This is applicable only for Oracle RAC Database.

Example 9: After restore change the state of tablespaces to online

```
Restore-SmBackup -PluginCode 'SCO' -AppObjectId  
'scspr0198204001.gdl.englab.netapp.com\itdb' -BackupName  
rg1_scspr0198204001_02-15-2017_16.53.38.9804_0 -oraclechangestate  
-OracleOpenTablespacesAfterRecovery -OracleTablespaces newts  
-ForceInplaceRes
```

After restoring the database, changes the state of the tablespaces to online

Example 10: After restore change the state of PDBS to read write

```
Restore-SmBackup -PluginCode 'SCO' -AppObjectId 'smo-suse-  
11g.gdl.englab.netapp.com\skdb' -BackupName 96skdb_smo-suse-11g_02-16-  
2017_17.46.09.0207_0 -oraclechangestate -OraclePluggableDatabases  
'SKPDB1','SKPDB2' -OracleOpenPluggableDatabasesAfterRecovery
```

After restoring the database, changes the state of the PDBS to read write.

Example 11: Restoring from existing files specified in alternate path from a primary

```
PS C:\> Restore-SmBackup -PluginCode SCSQL -AppObjectId 'vise-
f6\PayrollDatabase' -BackupName
      e 'NetApp_PayrollDataset_Backup Policy_vise-f6_NetApp_08-07-
2015_08.48.59.6962' -AlternatePath @{Source='I:\PayrollDatab
ase.mdf';Destination='H:\PayrollDatabase_copy_log.mdf'},@{Source='I:\Payro
llDatabase_log.ldf';Destination='H:\PayrollDat
abase_copy_log.ldf'} -SQLInstanceName 'vise-f6\BRAVEHEART'
-DatabaseName 'PayrollDatabase_copy' -ExistingFiles
```

This example syntax restores a backup using existing files specified alternate path

```
Name: Restore 'vise-f6\PayrollDatabase'
Id   : 203
StartTime   : 8/7/2015 9:30:32 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : False
IsScheduled    : False
PercentageCompleted : 0
Description    :
Status        : Queued
Owner         :
Error         :
Priority       : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
```

Example 12: Restore files/LUNs from Primary storage of Custom plugin resource using All File Restore option

```
Restore-SmBackup -PluginCode 'DummyPlugin' -AppObjectId
'scclinux1.scc.test.com\DummyPlugin\RNVOL' -BackupId 313 -Confirm:$false
-AllFileRestorePath
vserver_scauto_primary:/vol/ng_rvol1_scclinux1_scc_test_com
```

All File Restore can be performed on multiple volumes and on multiple Vservers by providing a comma separated list of volume paths from which All File Restore is to be performed

Example 13: Restore files from Primary storage of SAP HANA MultiTenant Database Container resource using All File Restore option

```
Restore-SmBackup -PluginCode 'hana' -AppObjectId  
scspr43002.scc.test.com\hana\R01\R01 -BackupId 313 -Confirm:$false  
-AllFileRestorePath vs_test:/vol/cn_p1,vs_test:/vol/cn_p2
```

All File Restore can be performed on multiple volumes and on multiple Vservers by providing a comma separated list of volume paths from which All File Restore is to be performed

Example 14: Restore files and LUNs from a Primary storage of SAP HANA MultiTenant Database Container resource

```
Restore-SmBackup -PluginCode 'hana' -AppObjectId  
scspr043002.scc.test.com\hana\R01\R01 -BackupId 3 -Confirm:$false  
-AllFileRestorePath vs_test:/vol/cn_p1 -Path  
vs_test:/vol/cn_lun_vol/cn_lun
```

All File Restore can be performed on multiple volumes and on multiple Vservers by providing a comma separated list of volume paths from which All File Restore is to be performed. Lun path can be provided as a value for Path parameter.

```
Name: Restore 'scspr043002.scc.test.com\hana\R01\R01'
Id   : 1363
StartTime   : 9/28/2019 10:22:11 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 1
ApisJobKey    :
ObjectId      : 0
PluginCode    : SCC
PluginName    : PluginCreator
HostId        : 0
RoleId        :
JobIds        : {}
```

Example 15: Restore LUNs from a specific backup of SAP HANA MultiTenant Database Containers resource

```
Restore-SmBackup -PluginCode 'hana' -BackupName
'schana02_gdl_englab_netapp_com_hana_MDC_R70_schana02_08-19-
2019_21.07.33.2537' -AppObjectId
'schana02.gdl.englab.netapp.com\hana\MDC\R70' -RecoveryType
RecoverToSpecificBackup
```

Restore performed to specific backup on Hana resource.

```
Name: Restore 'schana02.gdl.englab.netapp.com\hana\MDC\R70'
Id   : 1363
StartTime   : 9/30/2019 12:40:44 PM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 1
ApisJobKey    :
ObjectId      : 0
PluginCode    : SCC
PluginName    : PluginCreator
HostId        : 0
RoleId        :
JobIds        : {}
```

Example 16: Restore the HANA resource to a specific date or time (Point in time restore)

```
Restore-SmBackup -PluginCode 'hana' -AppObjectId
'AutoMTSles253\hana\MDC\MT1' -BackupId '469' -Confirm:$false
-recovertimezone 'GMT+05:30' -recoveruntiltime '10/01/19 05:46:21 AM'
-recoverytype RecoverUntilDateTime
```

Restore performed to a specific date or time on a HANA resource.

```

Name: Restore 'AutoMTSles253\hana\MDC\MT1'
Id : 1371
StartTime : 9/30/2019 12:59:42 PM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 1
ApisJobKey :
ObjectId: 0
PluginCode : SCC
PluginName : PluginCreator
HostId : 0
RoleId :
JobIds : {}

```

Example 17: Restoring to a custom log directory

```

Restore-SmBackup -PluginCode SCSQL -AppObjectId 'RAHUL-123-
123\INSTANCE2\db1' BackupName 'RAHUL-123-123_INSTANCE2_db1_SQL-123-123_06-
18-2018_15.53.55.4944 -AlternatePath @{Source='F:\New
folder\db1.mdf';Destination='C:\rtah\db1.mdf'},@{Source='F:\New
folder\db1_log.ldf';Destination='C:\rtah\db1_log.ldf'} -SQLInstanceName
'RX200-WHQL10\INST' -DatabaseName 'DB1_RTAH' -TargetHost 'rx200-
whql10.sdwdc.netapp.com' -LogRestoreType All -CustomLogDirectory "\\STAB-
VM1\net share" -Archive @{Primary="RAHUL_fs1-
smhv:Rahul_scsql";Secondary="RAHUL_fs.1-
smhv:RAHUL_fs1_smhv_Rahul_scsql_vault"}

```

This example syntax specifies a custom log directory when restoring backups.

```
Name:      : Restore 'RAHUL-123-123\INSTANCE2\db1' to instance 'RX200-
WHQL10\INST'
Id       : 48
StartTime    : 6/20/2018 1:31:25 AM
EndTime     :
IsCancellable  : False
IsRestartable  : False
IsVisible     : True
IsScheduled   : False
PercentageCompleted : 0
Description  :
Status      : Queued
Owner       :
Error       :
Priority: None
Tasks      : {}
ParentJobID : 0
EventId    : 0
JobTypeId  : 1
ApisJobKey :
ObjectId   : 0
PluginCode  : SCSQL
PluginName  : SnapCenter Plug-in for Microsoft SQL Server
HostId     : 0
RoleId     :
```

Example 18: Trigger file system restore without volume based restore

```
Restore-SmBackup -BackupName 'vp-
hanal_gdl_englab_netapp_com_hana_MDC_N92_vp-hanal_08-20-
2019_22.35.52.9698' -PluginCode HANA -AppObjectId 'vp-
hanal.gdl.englab.netapp.com\hana\MDC\N92'-RecoveryType SkipRecovery
-VolumeRevert
```

This example syntax supports file system restore without volume based restore.

```
Name:      : Restore 'vp-hana1.gdl.englab.netapp.com\hana\MDC\N92'
Id       : 77
StartTime  : 6/22/2018 1:55:10 AM
EndTime    :
IsCancellable : False
IsRestartable : False
IsVisible   : True
IsScheduled  : False
PercentageCompleted : 0
Description :
Status      : Queued
Owner       :
Error       :
Priority     : None
Tasks       : {}
ParentJobID : 0
EventId     : 0
JobTypeId   : 1
ApisJobKey   :
ObjectId    : 0
PluginCode   : SCC
PluginName   : hana
HostId      : 0
RoleId      :
```

Example 19: Trigger tenant database restore

```
Restore-SmBackup -BackupName 'vp-
hana1_gdl_englab_netapp_com_hana_MDC_N92_vp-hana1_08-20-
2019_22.35.52.9698' -PluginCode HANA -AppObjectId 'vp-
hana1.gdl.englab.netapp.com\hana\MDC\N92'-RecoveryType SkipRecovery
-TenantDatabaseName N92
```

This example syntax restores the given tenant database.

```
Name:      : Restore 'vp-hana1.gdl.englab.netapp.com\hana\MDC\N92'
Id       : 78
StartTime  : 6/23/2019 1:55:10 AM
EndTime   :
IsCancellable : False
IsRestartable : False
IsVisible   : True
IsScheduled  : False
PercentageCompleted : 0
Description :
Status     : Queued
Owner      :
Error      :
Priority    : None
Tasks      : {}
ParentJobID : 0
EventId    : 0
JobTypeId   : 1
ApisJobKey  :
ObjectId    : 0
PluginCode  : SCC
PluginName  : hana
HostId     : 0
RoleId     :
```

Example 20: Trigger HANA database restore with all logs

```
Restore-SmBackup -PluginCode 'HANA' -AppObjectId
'R708057AFB8V1\hana\MDC\H14' -BackupName
'R708057AFB8V1_hana_MDC_H14_R708057AFB8V1_08-25-2020_03.02.03.7780'
-RecoveryType RecoverToMostRecentState -InitializeLogArea
```

This example syntax restores the given HANA database.

```
Name: Restore 'R708057AFB8V1\hana\MDC\H14'
Id   : 8025
StartTime   : 8/25/2020 3:49:10 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId      : 0
JobTypeId     : 1
ApisJobKey    :
ObjectId      : 0
PluginCode    : SCC
PluginName    : PluginCreator
HostId       : 0
RoleId       :
JobIds       : {}
```

Example 21: Oracle Tablespace point in time recovery (TSPITR)

```
Restore-SmBackup -PluginCode SCO -AppObjectId
'SLES11SP4NONE.gdl.englab.netapp.com\PITNASDB' -BackupId 65
-AuxiliaryDestination '/mnt/auxDest' -OracleTablespaces TS1
-OracleUntilScn 987450
```

This example syntax performs an Oracle point in time recovery for a tablespace using SCN.

```
Name: Restore 'SLES11SP4NONE.gdl.englab.netapp.com\PITNASDB'
Id : 208
StartTime : 9/11/2020 9:40:12 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : False
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
```

Example 22: Oracle Pluggable database point in time recovery

```
Restore-SmBackup -PluginCode SCO -AppObjectId
'SLES11SP4NONE.gdl.englab.netapp.com\PITNASDB' -BackupId 65
-AuxiliaryDestination '/mnt/auxDest' -OraclePluggableDatabases PDBUNQ
-OracleUntilScn 987450
```

This example syntax performs an Oracle point in time recovery for a Pluggable database(PDB) using SCN.

```
Name: Restore 'SLES11SP4NONE.gdl.englab.netapp.com\PITNASDB'
Id   : 209
StartTime   : 9/11/2020 10:40:12 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : False
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId      : 0
```

Example 23: Oracle point in time recovery for tablespace of a pluggable database (TSPITR)

```
Restore-SmBackup -PluginCode SCO -AppObjectId
'SLES11SP4NONE.gdl.englab.netapp.com\PITNASDB' -BackupId 65
-AuxiliaryDestination '/mnt/auxDest' -OracleTablespaces TS109
-OraclePluggableDatabases PDBUNQ --OracleUntilTime '2020-09-11 20:39:00'
```

This example syntax performs an Oracle point in time recovery for a tablespace belonging to a pluggable database(PDB) using time.

```
Name: Restore 'SLES11SP4NONE.gdl.englab.netapp.com\PITNASDB'
Id   : 210
StartTime   : 9/11/2020 10:40:12 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : False
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority     : None
Tasks       : {}
ParentJobID  : 0
EventId     : 0
```

Example 24: Oracle Tablespace point in time recovery (TSPITR) from secondary

```
Restore-SmBackup -PluginCode SCO -AppObjectId
'SLES11SP4NONE.gdl.englab.netapp.com\PITNASDB' -BackupId 65
-AuxiliaryDestination '/mnt/auxDest' -OracleTablespaces TS23
-OracleUntilScn 987450 -Archive @{Primary="svm1-scc2554-263-
264:R706221F756V1_NFS_DB_DB1_DATA";Secondary="hnkn_sec:R706221F756V1_NFS_D
B_DB1_DATA_dst"} -LogArchive @{Primary="svm1-scc2554-263-
264:R706221F756V1_NFS_DB_DB1_LOG";Secondary="hnkn_sec:R706221F756V1_NFS_DB
_DB1_LOG_mirror"}
```

This example syntax performs an Oracle point in time recovery for a tablespace using SCN from secondary.

```
Name: Restore 'SLES11SP4NONE.gdl.englab.netapp.com\PITNASDB'
Id   : 232
StartTime   : 9/11/2020 11:40:12 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : False
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority     : None
Tasks       : {}
ParentJobID  : 0
EventId     : 0
```

Example 25: Restoring from a primary backup for UnixFileSystems plug-in

```
PS C:\> Restore-SmBackup -PluginCode UnixFileSystems -AppObjectId
'linuxfs201.gdl.englab.netapp.com\UnixFileSystems\/netapp/VGNFS1/LVM1'
-BackupId 580 -Confirm:$false
```

This example syntax restores from a primary backup.

```

        Name: Restore
'linuxfs201.gdl.englab.netapp.com\UnixFileSystems\/netapp/VGNFS1/LVM1'
    Id      : 2772
    StartTime    : 12/12/2023 9:29:34 AM
    EndTime      :
    IsCancellable    : False
    IsRestartable    : False
    IsCompleted      : False
    IsVisible        : True
    IsScheduled       : False
    PercentageCompleted : 0
    Description      :
    Status           : Queued
    Owner            :
    Error            :
    Priority: None
    Tasks           : {}
    ParentJobID      : 0
    EventId          : 0
    JobTypeId        : 1
    ApisJobKey        :
    ObjectId: 0
    PluginCode       : SCC
    PluginName       : PluginCreator
    HostId           : 0
    RoleId           :
    JobIds           : {}
    ScsJobId:

```

Example 26: Restoring from a secondary backup for UnixFileSystems plug-in

```

PS C:\> Restore-SmBackup -PluginCode UnixFileSystems -AppObjectId
'linuxfs201.gdl.englab.netapp.com\UnixFileSystems\/netapp/VGNFS1/LVM1'
-BuildId 580 -Confirm:$false -Archive
@{Primary="Dest_SVM:vol_source_dest";Secondary="Dest_SVM:vol_source_dest"}

```

This example syntax restores from a secondary backup.

```

        Name: Restore
'linuxfs201.gdl.englab.netapp.com\UnixFileSystems\ /netapp/VGNFS1/LVM1 '
        Id   : 2783
        StartTime   : 12/12/2023 9:58:19 AM
        EndTime     :
        IsCancellable   : False
        IsRestartable   : False
        IsCompleted    : False
        IsVisible       : True
        IsScheduled     : False
        PercentageCompleted : 0
        Description    :
        Status         : Queued
        Owner          :
        Error          :
        Priority: None
        Tasks          : {}
        ParentJobID    : 0
        EventId        : 0
        JobTypeId       : 1
        ApisJobKey      :
        ObjectId: 0
        PluginCode      : SCC
        PluginName      : PluginCreator
        HostId         : 0
        RoleId         :
        JobIds         : {}
        ScsJobId:

```

Example 27: Trigger PostgreSQL cluster restore with all logs

```

Restore-SmBackup -PluginCode 'PostgreSQL' -AppObjectId
'shivarhel2.rtp.openenglab.netapp.com\PostgreSQL\postgres_5432'
-BackupName
'shivarhel2_rtp_openenglab_netapp_com_PostgreSQL_postgres_5432_shivarhel2_
06-26-2024_00_33_41_1570' -RecoveryType RecoverToMostRecentState
-Confirm:$false

```

This example syntax restores the given PostgreSQL cluster to the most recent state.

```

        Name: Restore
'shivarhel2.rtp.openenglab.netapp.com\PostgreSQL\postgres_5432'
        Id : 110
        StartTime : 6/27/2024 2:11:04 AM
        EndTime :
        IsCancellable : False
        IsRestartable : False
        IsCompleted : False
        IsVisible : True
        IsScheduled : False
        PercentageCompleted : 0
        Description :
        Status : Queued
        Owner :
        Error :
        Priority: None
        Tasks : {}
        ParentJobID : 0
        EventId : 0
        JobTypeId : 1
        ApisJobKey :
        ObjectId: 0
        PluginCode : SCC
        PluginName : PluginCreator
        HostId : 0
        RoleId :
        JobIds : {}
        ScsJobId:
        MaxJobsInQueue : 0
        JobTags :
        Tags: {}
        WaitForTags :
        ResourceId :
        QueueTimeoutMins: 0
        ProtectiongroupID :
        PolicyID:

```

Example 28: Restore the PostgreSQL resource to a specific date or time (Point in time restore)

```

Restore-SmBackup -PluginCode 'PostgreSQL' -AppObjectId
'shivarhel2.rtp.openenglab.netapp.com\PostgreSQL\postgres_5432' -BackupId
'70' -Confirm:$false -recoveruntiltime '2024-06-10T03:27:00' -recoverytype
RecoverUntilDateTime

```

Restore performed to a specific date or time on a PostgreSQL resource.

```
Name: Restore
'shivarhel2.rtp.openenglab.netapp.com\PostgreSQL\postgres_5432'
Id   : 111
StartTime   : 6/27/2024 2:15:35 AM
EndTime   :
IsCancellable   : False
IsRestartable   : False
IsCompleted : False
IsVisible   : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status   : Queued
Owner   :
Error   :
Priority: None
Tasks   : {}
ParentJobID : 0
EventId : 0
JobTypeId   : 1
ApisJobKey   :
ObjectId: 0
PluginCode   : SCC
PluginName   : PluginCreator
HostId   : 0
RoleId   :
JobIds   : {}
ScsJobId:
MaxJobsInQueue : 0
JobTags :
Tags: {}
WaitForTags :
ResourceId :
QueueTimeoutMins: 0
ProtectiongroupID :
PolicyID:
```

Example 28: Trigger MySQL instance complete restore

```
Restore-SmBackup -PluginCode 'MySQL' -AppObjectId  
'scs000211748.gdl.englab.netapp.com\MySQL\mysqld_3306' -BackupName  
'scs000211748_gdl_englab_netapp_com_MySQL_mysqld_3306_scs000211748_06-26-  
2024_06.08.35.4307'
```

This example syntax restores the given MySQL Instance from the primary backup.

```
Name: Restore 'scs000211748.gdl.englab.netapp.com\MySQL\mysqld_3306'  
Id : 461  
StartTime : 6/28/2024 11:11:04 AM  
EndTime :  
IsCancellable : False  
IsRestartable : False  
IsCompleted : False  
IsVisible : True  
IsScheduled : False  
PercentageCompleted : 0  
Description :  
Status : Queued  
Owner :  
Error :  
Priority: None  
Tasks : {}  
ParentJobID : 0  
EventId : 0  
JobTypeId : 1  
ApisJobKey :  
ObjectId: 0  
PluginCode : SCC  
PluginName : PluginCreator  
HostId : 0  
RoleId :  
JobIds : {}  
ScsJobId:  
MaxJobsInQueue : 0  
JobTags :  
Tags: {}  
WaitForTags :  
ResourceId :  
QueueTimeoutMins: 0  
ProtectiongroupID :  
PolicyID:
```

Restore-SmRepositoryBackup

Restores the SnapCenter database.

Syntax

```
Restore-SmRepositoryBackup [-HostName] <String> [-SMSbaseUrl] <String>  
[-BackupPath] <String> [-BackupName] <String> [-RestoreFileSystem] <>
```

Detailed Description

Restores the SnapCenter database.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName	Specifies the SnapCenter database host name. If the SnapCenter database is hosted by a failover cluster instance (FCI), then specify the FCI owner host name.	true	true (ByPropertyName)	
SMSbaseUrl	Specifies the SnapCenter Server URL. This URL is required when you are executing the PowerShell command from a database host.	false	true (ByPropertyName)	
BackupPath	Specifies the path where the SnapCenter repository is stored.	false	true (ByPropertyName)	
BackupName	Specifies the name of the backup to restore.	true	true (ByPropertyName)	
RestoreFileSystem	Specifies that the file system can be restored when backups are missing.	false	true (ByPropertyName)	

Examples

Example 1: Restoring a database backup

```
Restore-SmRepositoryBackup -BackupName MYSQL_DS_SC_Repository_mva-x3550-  
s09_09-15-2016_10.32.00.4445
```

This example syntax restores the specified database backup.

You can retrieve `-BackupName` by using `Get-smRepositoryBackups`.

Restore-SmServerBackup

Restores an existing SnapCenter Server backup.

Syntax

```
Restore-SmServerBackup [-BackupPath] <String> [-BackupName] <String>
[-SkipSMSURLUpdateInHosts] <SwitchParameter>
```

Detailed Description

Restores an existing SnapCenter Server backup.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
BackupPath	Specify the path where the SnapCenter Server backup is stored.	true	true (ByPropertyName)	
BackupName	Specify the name of the SnapCenter Server backup that needs to be restored.	true	true (ByPropertyName)	
SkipSMSURLUpdateInHosts	Skip SnapCenter Server URL update in all hosts	false	false	

Examples

Example 1: Restoring a SnapCenter Server backup

```
Restore-SmServerBackup -BackupPath E:\Data -BackupName smhv-rx200-8.HNK2.COM_08-30-2023_19.34.55.0827
```

This example restores the SnapCenter Server backup from the specified path and updates the new SnapCenter URL in all the hosts.

```
Name: Restore SnapCenter Server backup
Id   : 60
StartTime   : 8/30/2023 8:24:19 PM
EndTime    : 8/30/2023 8:24:20 PM
IsCancellable   : False
IsRestartable   : False
IsCompleted    : False
IsVisible      : True
IsScheduled     : False
PercentageCompleted : 100
Description :
Status   : Running
Owner    :
Error    :
Priority: None
Tasks    : {Prepare for restore job}
ParentJobID : 0
EventId  : 0
JobTypeId   : 1
ApisJobKey  :
ObjectId: 0
PluginCode  : NONE
PluginName  : NONE
HostId     : 0
RoleId     :
JobIds     : {}
ScsJobId:
```

Example 2: Restoring a SnapCenter Server backup

```
Restore-SmServerBackup -BackupPath E:\Data -BackupName smhv-rx200-
8.HNK2.COM_08-30-2023_19.34.55.0827 -SkipSMSURLUpdateInHosts
```

This example restores the SnapCenter Server backup from the specified path and skips updating the new SnapCenter URL in all the hosts

```
Name: Restore SnapCenter Server backup
Id   : 60
StartTime   : 8/30/2023 8:24:19 PM
EndTime    : 8/30/2023 8:24:20 PM
IsCancellable   : False
IsRestartable   : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 100
Description :
Status   : Running
Owner    :
Error    :
Priority: None
Tasks    : {Prepare for restore job}
ParentJobID : 0
EventId  : 0
JobTypeId   : 1
ApisJobKey  :
ObjectId: 0
PluginCode  : NONE
PluginName  : NONE
HostId     : 0
RoleId     :
JobIds     : {}
ScsJobId:
```

Send-SmDataCollectionEms

Starts the EMS data collection process. This is primarily an internal cmdlet and generally should not be used by customers.

Syntax

```
Send-SmDataCollectionEms
```

Detailed Description

Starts the EMS data collection process. EMS data collection messages are sent by default on a weekly basis. You can use the Set-SmDataCollectionEmsSchedule cmdlet to change the default schedule. This is primarily an internal cmdlet and generally should not be used by customers.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	------------	----------------	---------------

Examples

Set-SmAuditSettings

Sets Audit configurations and Syslog configurations

Syntax

```
Set-SmAuditSettings [-MaxFileSize] <Int64> [-MaxSizeRollBackups]
<Int32> [-AuditLogDirectory] <String> [-UniversalTime] <Boolean> [-
AuditChecksumLogDirectory] <String> [-DiskSpaceLimitPercentage] <Int32>
[-EnableAuditIntegrityCheckSchedule] <Boolean> [-EnableSyslogServer]
<Boolean> [-SyslogServerHost] <String> [-SyslogServerPort] <Int32> [-
SyslogProtocol] <SyslogProtocols> [-SyslogFormat] <SyslogFormats>
```

Detailed Description

Sets below configurations Audit related configuration - Maximum File Size Maximum files to retain Audit Log file location Audit Log Checksum file location DiskSpaceLimitPercentage Option to Enable Audit Integrity Check Schedule Syslog server related configuration - Option to Enable Syslog Server Syslog Server Host Syslog Server Port Syslog Protocol Syslog Format

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
MaxFileSize	The maximum size in MB that the log file is allowed to reach before being rolled over to backup files.	true	false	
MaxSizeRollBackups	The number of roll over audit files that are retained.	true	false	
AuditLogDirectory	The location where audit files are generated.	true	false	
UniversalTime	Enables message logging in UTC time for installations in different geographical locations. Use \$True to enable UniversalTime or \$False to disable UniversalTime.	false	false	

Name	Description	Required ?	Pipeline Input	Default Value
AuditChecksumLog Directory	The location where audit checksum files are generated.	true	false	
DiskSpaceLimitPercentage	Disk space usage limit in percentage, after limit is reached alters are raised.	true	false	
EnableAuditIntegrityCheckSchedule	To Enable scheduled audit integrity check. Possible values are \$True and \$False.	true	false	
EnableSyslogServer	Switch to Enable forwarding audit logs to syslog server.	true	false	
SyslogServerHost	Syslog server IP address or Server name.	false	false	
SyslogServerPort	Syslog server Port. Possible values can range between 0 - 65535.	false	false	
SyslogProtocol	Syslog server Protocol. Possible values are UDP, TCP and TLS12.	false	false	
SyslogFormat	Syslog server messages format. Possible values are Rfc5424 and Rfc3164.	false	false	

Examples

Example 1: Setting audit log and syslog server settings

```
Set-SmAuditSettings -MaxFileSize 50
-MaxSizeRollBackups 10
-AuditLogDirectory 'C:\Program Files\NetApp\SnapCenter WebApp\audit'
-AuditChecksumLogDirectory 'C:\Program Files\NetApp\SnapCenter
WebApp\auditChecksum'
-DiskSpaceLimitPercentage 80
-EnableAuditIntegrityCheckSchedule $False
-EnableSyslogServer
-SyslogServerHost 10.229.39.107
-SyslogServerPort 1468
-SyslogProtocol TCP
-SyslogFormat Rfc5424
```

This example sets audit log and syslog server settings.

```

MaxFileSize : 50
MaxSizeRollBackups : 10
UniversalTime : False
AuditLogDirectory : C:\Program Files\NetApp\SnapCenter WebApp\audit
AuditChecksumLogDirectory : C:\Program Files\NetApp\SnapCenter
WebApp\auditChecksum
DiskSpaceLimitPercentage : 80
EnableAuditIntegrityCheckSchedule : False
EnableSyslogServer : True
SyslogServerHost : 10.229.39.107
SyslogServerPort : 1468
SyslogProtocol : TCP
SyslogFormat : Rfc5424

```

Set-SmAuditSettings

Sets Audit configurations and Syslog configurations

Syntax

```

Set-SmAuditSettings [-MaxFileSize] <Int64> [-MaxSizeRollBackups]
<Int32> [-AuditLogDirectory] <String> [-UniversalTime] <Boolean> [-
AuditChecksumLogDirectory] <String> [-DiskSpaceLimitPercentage] <Int32>
[-EnableAuditIntegrityCheckSchedule] <Boolean> [-EnableSyslogServer]
<Boolean> [-SyslogServerHost] <String> [-SyslogServerPort] <Int32> [-
SyslogProtocol] <SyslogProtocols> [-SyslogFormat] <SyslogFormats>

```

Detailed Description

Sets below configurations Audit related configuration - Maximum File Size Maximum files to retain Audit Log file location Audit Log Checksum file location DiskSpaceLimitPercentage Option to Enable Audit Integrity Check Schedule Syslog server related configuration - Option to Enable Syslog Server Syslog Server Host Syslog Server Port Syslog Protocol Syslog Format

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
MaxFileSize	The maximum size in MB that the log file is allowed to reach before being rolled over to backup files.	true	false	
MaxSizeRollBackups	The number of roll over audit files that are retained.	true	false	

Name	Description	Required ?	Pipeline Input	Default Value
AuditLogDirectory	The location where audit files are generated.	true	false	
UniversalTime	Enables message logging in UTC time for installations in different geographical locations. Use \$True to enable UniversalTime or \$False to disable UniversalTime.	false	false	
AuditChecksumLog Directory	The location where audit checksum files are generated.	true	false	
DiskSpaceLimitPercentage	Disk space usage limit in percentage, after limit is reached alerts are raised.	true	false	
EnableAuditIntegrity CheckSchedule	To Enable scheduled audit integrity check. Possible values are \$True and \$False.	true	false	
EnableSyslogServer	Switch to Enable forwarding audit logs to syslog server.	true	false	
SyslogServerHost	Syslog server IP address or Server name.	false	false	
SyslogServerPort	Syslog server Port. Possible values can range between 0 - 65535.	false	false	
SyslogProtocol	Syslog server Protocol. Possible values are UDP, TCP and TLS12.	false	false	
SyslogFormat	Syslog server messages format. Possible values are Rfc5424 and Rfc3164.	false	false	

Examples

Example 1: Setting audit log and syslog server settings

```
Set-SmAuditSettings -MaxFileSize 50
-MaxSizeRollBackups 10
-AuditLogDirectory 'C:\Program Files\NetApp\SnapCenter WebApp\audit'
-AuditChecksumLogDirectory 'C:\Program Files\NetApp\SnapCenter
WebApp\auditChecksum'
-DiskSpaceLimitPercentage 80
-EnableAuditIntegrityCheckSchedule $False
-EnableSyslogServer
-SyslogServerHost 10.229.39.107
-SyslogServerPort 1468
-SyslogProtocol TCP
-SyslogFormat Rfc5424
```

This example sets audit log and syslog server settings.

```
MaxFileSize : 50
MaxSizeRollBackups : 10
UniversalTime : False
AuditLogDirectory : C:\Program Files\NetApp\SnapCenter WebApp\audit
AuditChecksumLogDirectory : C:\Program Files\NetApp\SnapCenter
WebApp\auditChecksum
DiskSpaceLimitPercentage : 80
EnableAuditIntegrityCheckSchedule : False
EnableSyslogServer : True
SyslogServerHost : 10.229.39.107
SyslogServerPort : 1468
SyslogProtocol : TCP
SyslogFormat : Rfc5424
```

Set-SmCertificateSettings

Enables you to modify the certificate settings for the SnapCenter Server host or a SnapCenter plug-in host.

Syntax

```
Set-SmCertificateSettings [-Server] <> [-Enable] <> [-Disable] <> [-
Host] <> [-HostName] <String> [-Enable] <> [-Disable] <>
```

Detailed Description

Enables you to modify the certificate settings for the SnapCenter Server host or a SnapCenter plug-in host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Server	Enables the Snapcenter server to perform SSL Secure validations.	true	false	
Host	Specifies that you want to perform SSL Secure validations on Snapcenter Host.	true	false	
HostName	Specifies the name of the host on which you want to perform SSL Secure validations.	true	false	
Enable	Specifies the Snapcenter server or host to enable SSL Secure validations.	true	false	
Disable	Specifies the Snapcenter server or host to disable SSL Secure validations.	true	false	

Examples

Example 1: Updating certificate settings for server

```
Set-SmCertificateSettings -Server -Enable
```

This example syntax sets certificate settings for server. Enables the server to perform SSL secure validations.

```
Name: Enabling certificate validation on server
      Id : 51
      StartTime : 3/12/2021 1:42:58 PM
      EndTime : 3/12/2021 1:42:59 PM
      IsCancellable : False
      IsRestartable : False
      IsCompleted : False
      IsVisible : True
      IsScheduled : False
      PercentageCompleted : 100
      Description :
      Status : Completed
      Owner :
      Error :
      Priority: None
      Tasks : {}
      ParentJobID : 0
      EventId : 0
      JobTypeId : 38
      ApisJobKey :
      ObjectId: 0
      PluginCode : NONE
      PluginName : NONE
      HostId : 0
      RoleId :
      JobIds : {}
```

Example 2: Updating certificate settings for Host

```
Set-SmCertificateSettings -Host -HostName
R71104B320CV1.mva.gdl.englab.netapp.com -Enable
```

This example syntax sets certificate settings for host. Enables the host to perform SSL secure validations.

Name: Enabling certificate validation on Host
R71104B320CV1.mva.gdl.englab.netapp.com

Id : 52
StartTime : 3/12/2021 1:47:06 PM
EndTime : 3/12/2021 1:47:13 PM
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 100
Description :
Status : Completed
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 38
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName : NONE
HostId : 0
RoleId :
JobIds : {}

Set-SmCloneDataSet

Modifies an existing clone dataset.

Syntax

```
Set-SmCloneDataSet [-DataSetName] <String> [-Description] <String> [-  
Policies] <String> [-PluginCode] <PluginCode> [-CloneToInstance]  
<String> [-Resources] <Hashtable[]> [-Suffix] <String> [-  
SchedulerCredentialName] <String> [-ArchivedLocators] <Hashtable[]> [-  
EnableEmail] <> [-EmailPreference] <SmEmailNotificationPreference> [-  
EmailFrom] <String> [-EmailTo] <String> [-EmailSubject] <String> [-  
EmailBody] <String> [-CustomSnapshotFormat] <String> [-CustomText]  
<String> [-RemoveCustomSnapshot] <>
```

Detailed Description

Modifies an existing clone dataset.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
DataSetName	Specifies the name of the clone dataset you want to modify.	true	true (ByPropertyName)	
Description	Modifies the optional description of the clone dataset.	false	true (ByPropertyName)	
Policies	Modifies which policies are attached to the clone dataset.	false	true (ByPropertyName)	
PluginCode		true	true (ByPropertyName)	
CloneToInstance	Changes the SQL Server instance that you want to clone to. All databases in the clone dataset are cloned to this instance.	true	true (ByPropertyName)	
Resources	Modifies the list of resources you want to add to the clone dataset. You must provide the resource information in a hashtable, and it must contain the resource name and type, and the host on which it is located. For example, @{"Host"="localhost";"Type"="SQL Database";"Names"="Instance\Database"} Valid Type values are: SQL Database, SQL Instance, SQL Availability Group. You can include comma-separated values for Names.	true	true (ByPropertyName)	
Suffix	Modifies a clone name suffix. All clones you create with one clone job are appended with the same suffix name.	false	true (ByPropertyName)	
SchedulerCredential Name		false	true (ByPropertyName)	
ArchivedLocators		false	true (ByPropertyName)	
EnableEmail	Specifies whether to enable or disable e-mail.	false	false	

Name	Description	Required ?	Pipeline Input	Default Value
EmailPreference	Specifies when you will receive e-mail notifications. Possible values: Always, Never, OnError, OnErrorOrWarning.	false	false	
EmailFrom	Specifies the sender's e-mail address.	false	true (ByPropertyName)	
EmailTo	Specifies the recipient's e-mail address.	false	true (ByPropertyName)	
EmailSubject	Specifies the subject of the e-mail.	false	true (ByPropertyName)	
EmailBody	Specifies the body of the e-mail.	false	true (ByPropertyName)	
CustomSnapshotFormat	Specifies the custom Snapshot copy naming format.	false	true (ByPropertyName)	
CustomText	Specifies the custom text in the custom Snapshot copy naming format.	false	true (ByPropertyName)	
RemoveCustomSnapshot	Specifies the removal of the custom Snapshot copy naming format associated with the dataset.	false	true (ByPropertyName)	

Examples

Example 1: Modifying a clone dataset with a new suffix

```
Set-SmCloneDataSet -DataSetName payroll_dataset -Resources
@{"Host"="vise-
f3.sddev.mycompany.com"; "Type"="SQLDatabases"; "Names"="vise-
f3\SQLExpress\payroll"} -CloneToInstance vise-f4\sqlexpress -Suffix __
newSuffix
```

This example syntax modifies a clone dataset by adding a new suffix.

Description :
CreationTime: 8/6/2015 2:27:08 PM
ModificationTime: 8/6/2015 2:27:08 PM
EnableEmail :
EmailSMTPServer :
EmailFrom :
EmailTo :
EmailSubject:
EnableSysLog: False
ProtectionGroupType : Clone
EnableAsupOnFailure : False
Policies: {}
HostResourceMapping : {}
Configuration : SMCoreContracts.SmCloneConfiguration
LastBackupStatus:
VerificationServer :
EmailBody :
EmailNotificationPreference :
VerificationServerInfo :
SchedulerSQLInstance:
CustomText :
CustomSnapshotFormat:
SearchResources : False
ByPassRunAs : False
IsCustomSnapshot:
MaintenanceStatus : Production
PluginProtectionGroupTypes :
Name: payroll_dataset
Type: Group
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0

Example 2: Modifying a clone dataset

```
Set-SmCloneDataSet -DataSetName payroll_dataset -Resources
@{"Host"="vise-
f3.sddev.mycompany.com";"Type"="SQLDatabases";"Names"="vise-
f3\SQLExpress\payroll,vise-f3\SQLExpress\edrive"} -CloneToInstance vise-
f3\sqlexpress
```

This example syntax modifies a clone dataset

```
Description :
CreationTime: 8/6/2015 3:06:25 PM
ModificationTime: 8/6/2015 3:06:25 PM
EnableEmail :
EmailSMTPServer :
EmailFrom :
EmailTo :
EmailSubject:
EnableSysLog: False
ProtectionGroupType : Clone
EnableAsupOnFailure : False
Policies: {}
HostResourceMapping : {}
Configuration : SMCoreContracts.SmCloneConfiguration
LastBackupStatus:
VerificationServer :
EmailBody :
EmailNotificationPreference :
VerificationServerInfo :
SchedulerSQLInstance:
CustomText :
CustomSnapshotFormat:
SearchResources : False
ByPassRunAs : False
IsCustomSnapshot:
MaintenanceStatus : Production
PluginProtectionGroupTypes :
Name: payroll_dataset
Type: Group
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

Set-SmCloneJob

Modifies an existing clone job.

Syntax

```
Set-SmCloneJob [-CloneJobName] <String> [-PluginCode] <PluginCode> [-CloneToInstance] <String> [-CloneToHost] <String> [-Description] <String> [-ResourceGroupName] <String> [-Resources] <Hashtable[]> [-EnableAsupOnFailure] <Boolean> [-EnableSysLog] <Boolean> [-EnableEmail] <> [-EmailPreference] <SmEmailNotificationPreference>
```

Detailed Description

Modifies an existing clone job based on the parameters provided.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
CloneJobName		true	true (ByPropertyName)	
PluginCode		true	true (ByPropertyName)	
CloneToInstance		true	true (ByPropertyName)	
CloneToHost		true	true (ByPropertyName)	
Description		false	true (ByPropertyName)	
ResourceGroupName		false	true (ByPropertyName)	
Resources		false	true (ByPropertyName)	
EnableAsupOnFailure		false	true (ByPropertyName)	
EnableSysLog		false	true (ByPropertyName)	
EnableEmail		false	false	
EmailPreference		false	false	
AutoAssignMountPoint		false	true (ByPropertyName)	
AssignMountPointUnderPath		false	true (ByPropertyName)	
CloneType		false	true (ByPropertyName)	
Suffix		false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
ArchivedLocators		false	true (ByPropertyName)	
CustomSnapshotFormat		false	true (ByPropertyName)	
CustomText		false	true (ByPropertyName)	
SchedulerCredentialName		false	true (ByPropertyName)	
Schedules		false	true (ByPropertyName)	
SchedulerType		false	true (ByPropertyName)	
SchedulerInstance		false	true (ByPropertyName)	
DeleteCloneOnScheduleExpiry		false	true (ByPropertyName)	
PreScriptCommand		false	true (ByPropertyName)	
PreScriptArguments		false	true (ByPropertyName)	
PostScriptCommand		false	true (ByPropertyName)	
PostScriptArguments		false	true (ByPropertyName)	
ScriptTimeOut		false	true (ByPropertyName)	
EmailBody		false	true (ByPropertyName)	
EmailFrom		true	true (ByPropertyName)	
EmailTo		true	true (ByPropertyName)	
EmailSubject		true	true (ByPropertyName)	
EnableEmailAttachment		false	true (ByPropertyName)	

Examples

- Example 1: Modifying a clone job to add a suffix. -

```
Set-SmCloneJob -ResourceGroupName RG1 -CloneJobName CLMJob -PluginCode
SCSQL -CloneToInstance R708202074BV1\SQL2019 -CloneToHost
R708202074BV1.hnk2.com -Suffix _clone_001
```

This example syntax modifies a clone job by adding a new suffix.

```
Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
Name: Clone life cycle of Resource Group 'CLMJob' with policy
'CLMJob_ClonePolicy'
Id           : 151
StartTime    : 8/25/2020 6:14:05 AM
EndTime      :
IsCancellable : False
IsRestartable : False
IsCompleted   : False
IsVisible     : True
IsScheduled   : False
PercentageCompleted : 0
Description   :
Status        : Queued
Owner         :
Error         :
Priority      : None
Tasks         : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 8
ApisJobKey    :
ObjectId      : 0
PluginCode    : NONE
PluginName    : NONE
HostId        : 0
RoleId        :
JobIds        : {}
```

- Example 2: Modifying a clone job -

```
Set-SmCloneJob -ResourceGroupName RG1 -CloneJobName CLMJob -PluginCode
SCSQL -CloneToInstance
R708202074BV1\SQL2019 -CloneToHost R708202074BV1.hnk2.com
-AssignMountPointUnderPath 'C:\work' -Suffix _clone_001
```

This example syntax modifies a clone job.

```
Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
Name: Clone life cycle of Resource Group 'CLMJob' with policy
'CLMJob_ClonePolicy'
Id           : 157
StartTime    : 8/25/2020 6:17:34 AM
EndTime      :
IsCancellable : False
IsRestartable : False
IsCompleted   : False
IsVisible     : True
IsScheduled   : False
PercentageCompleted : 0
Description   :
Status       : Queued
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 8
ApisJobKey    :
ObjectId      : 0
PluginCode    : NONE
PluginName    : NONE
HostId       : 0
RoleId       :
JobIds        : {}
```

Set-SmConfigSettings

Enables you to modify the configuration settings for the SnapCenter Server host or a SnapCenter plug-in host.

Syntax

```
Set-SmConfigSettings [-Server] <> [-configSettings] <Hashtable> [-Agent] <> [-HostName] <String> [-configSettings] <Hashtable> [-Plugin] <> [-HostName] <String> [-PluginCode] <PluginCode> [-configSettings] <Hashtable>
```

Detailed Description

Enables you to modify the configuration settings for the SnapCenter Server host or a SnapCenter plug-in host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Server	Modifies the configuration values for the server on which SnapCenter is installed.	true	false	
configSettings	Specifies in a hash table the configuration settings you want to modify.	true	false	
Agent	Specifies that you want to modify configuration values for the SMCore agent.	true	false	
HostName	Specifies the name of the host on which you want to modify configuration settings.	true	false	
Plugin	Specifies that you want to modify the configuration information of the plug-in host.	true	false	
PluginCode	Specifies the plug-in code for the plug-in host for which you are modifying configuration settings.	true	false	

Examples

Example 1: Modifying multiple configuration settings for a custom plugin

```
Set-SmConfigSettings -Agent -HostName SNAPCENTER113.sccore.test.com  
-configSettings @{"SERVER_API_TIMEOUT_IN_SEC"="300";"ALLOWED_CMDS"="mount  
*; unmount *"}>
```

This example syntax sets 2 configuration settings key-values for a custom plug-in.

Name Value

SERVER_API_TIMEOUT_IN_SEC 300

ALLOWED_CMDS mount *; unmount *

Example 2: Modifying a single configuration setting on the SnapCenter Server

```
Set-SmConfigSettings -Server -configSettings  
@{"WindowsRemoteInstallProcessTimeout"="900"}
```

This example syntax modifies the specified configuration setting on the SnapCenter Server.

Name Value

WindowsRemoteInstallProcess... 900

Example 3: Setting the chunk size for which files are grouped for a directory restore from primary storage

```
Set-SmConfigSettings -Server -configSettings  
@{"PrimaryRestoreFileChunkSize"="500";}
```

This example syntax specifies the file chunk size to restore from primary storage. The default primary restore chunk is 500. You can increase or decrease the chunk size, but the size must be greater than 0.

Example 4: Setting the chunk size for which files are grouped for a directory restore from secondary storage

```
Set-SmConfigSettings -Server -configSettings @{"  
SecondaryRestoreFileChunkSize "="8";}
```

This example syntax specifies the file chunk size to restore from secondary storage. The default secondary restore chunk is 8. You can increase or decrease the chunk size, but the size must be greater than 0.

Example 5: Setting a custom port

```
Set-SmConfigSettings -Agent -configSettings @{"PORT"="8174"} -HostName  
SNAPCENTER113.sscore.test.com
```

This example syntax specifies the custom port number for the SMCore agent as 8174.

Name Value

PORT 8174

Example 6: Setting load sharing mirror retry

```
Set-SmConfigSettings -Agent -configSettings @{"lsmsleep"="9997"}  
-HostName localhost
```

This example syntax sets the load sharing mirror retry time to 9997 milliseconds to enable load sharing mirrors to finish updating before retrying mount or restore operations.

Name Value

lsmsleep 9997

Example 7: Setting the access method of SQL log backups for reseed and restore operations of availability group database

```
Set-SmConfigSettings -Server -configSettings  
@{"ReseedLogBackupMount"="true"}
```

The example syntax sets the log backup's access as mount and copy for restore and reseed operations of availability group database. Setting the flag to true indicates that the SQL availability group database reseed and restore operations should mount the log backups on the target host rather than accessing them as a network share.

The default value is "false".

Set-SmCredential

Modify a credential registered with the SnapCenter Server.

Syntax

```
Set-SmCredential [-Name] <String> [-Type] <SmAuthMode> [-ClientSecret]  
<SecureString> [-TenantId] <String> [-ClientId] <String> [-  
InstanceName] <String> [-Force] <> [-Credential] <PSCredential>
```

Detailed Description

Modify a credential registered with the SnapCenter Server. It could be for other plug-ins or for other NetApp cloud storage.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Specifies the name of the Credential Account.	true	true (ByPropertyName)	
Type	Specifies the authentication mode.	true	true (ByPropertyName)	
ClientSecret	Specifies the Azure NetApp client secret.	false	true (ByPropertyName)	
TenantId	Specifies the Azure NetApp tenant ID.	false	true (ByPropertyName)	
ClientId	Specifies the Azure NetApp client ID.	false	true (ByPropertyName)	
InstanceName		false	true (ByPropertyName)	
Force		false	true (ByPropertyName)	
Credential		true	true (ByPropertyName)	

Examples

Example 1: Set Azure Credential

```
Set-SmCredential -Name azure -Type AzureCredential -ClientSecret
99634c34-6d2a-9jfb-a47b-0jhg9710037d -TenantId 25434c84-982a-9jfb-a47b-
0h6f97076037d -ClientId 87dg98hg-6e2a-498b-m33b-0p2a97134756
```

Example 2: Modify AIX Credential

```
Set-SmCredential -Name 'RunAs1' -CredentialType 'AIX'
```

Example 3: Modify Authentication Type for Linux Credential

```
Set-SmCredential -Name LinuxPasswordBasedRunAs -Type Linux
-AuthenticationType SshKeyBased -Username scanf -SSHPrivateKeyPath
"C:\Users\Administrator\passwordfile.txt"
```

Set-SmDataCollectionEmsSchedule

Sets your EMS data collection schedule.

Syntax

```
Set-SmDataCollectionEmsSchedule [-CredentialName] <String> [-DaysInterval] <Int16> [-StartDateTime] <DateTime>
```

Detailed Description

Sets your EMS data collection schedule. When scheduling EMS data collection you must configure a Run As account. You can configure the start date and time, as well as the frequency of the EMS data collection.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
CredentialName		true	false	
DaysInterval	Specifies the frequency with which you want to run EMS data collection, in days. The default is every 7 days.	true	false	
StartDateTime	Specifies the date and time you want to start EMS data collection. For example, -StartDateTime "6/20/2015 1:00 AM"	false	false	

Examples

Example 1: Configuring the EMS data collection schedule

```
Set-SmDataCollectionEmsSchedule -DaysInterval 14 -RunAs runas_name -StartDateTime "6/20/2015 1:00 AM"
```

This example syntax configures your EMS data collection schedule to run every two weeks, starting on June 20th at 1:00 am, and provides a valid Run As account name.

Set-SmDataCollectionEmsTarget

Specifies the target storage system to which you want to send your EMS data collection messages.

Syntax

```
Set-SmDataCollectionEmsTarget [-Target] <String>
```

Detailed Description

Specifies the target storage system to which you want to send your EMS data collection messages. You are not required to set up the EMS data collection target storage system. If you omit the EMS data collection target, SnapCenter sends the EMS storage collection messages to the first in your list of storage system connections, and retries subsequent connections upon failure.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Target	Specifies your target storage system name. If you need to identify the storage system name, run Get-SmStorageConnection to view a list of storage system names.	true	false	

Examples

Example 1: Setting the EMS data collection target storage system

```
Set-SmDataCollectionEmsTarget -Target SVM1
```

This example syntax sets the target storage system to which you want to send your EMS data collection messages.

Target

SVM1

Set-SmDatasetMaintenance

Sets a dataset to maintenance or production mode.

Syntax

```
Set-SmDatasetMaintenance [-DatasetName] <String> [-MaintenanceStatus]  
<SmMaintenanceStatus>
```

Detailed Description

Sets a dataset to maintenance or production mode. No scheduled jobs are executed for a dataset in maintenance mode.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
DatasetName	The dataset name.	true	true (ByPropertyName)	
MaintenanceStatus	The maintenance status of the dataset. The maintenance status is Production or UnderMaintenance.	true	true (ByPropertyName)	

Examples

Example 1: Setting a dataset to production mode

```
Set-SmDatasetMaintenance -DatasetName Payroll_Dataset -MaintenanceStatus  
Production
```

This example syntax set the specified dataset to production mode.

Set-SmDisasterRecovery

Enables storage disaster recovery.

Syntax

```
Set-SmDisasterRecovery [-Enable] <> [-Disable] <>
```

Detailed Description

Enables or disables storage disaster recovery.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Enable	Specifies the SnapCenter Server to enable storage disaster recovery.	true	false	
Disable	Specifies the SnapCenter Server to disable storage disaster recovery.	true	false	

Examples

Example 1: Enabling storage disaster recovery

```
Set-SmDisasterRecovery -Enable
```

This example syntax enables storage disaster recovery.

```
Set-SmDisasterRecovery
Before enabling this option, make sure all the SCSQL resources are online
and active on the secondary storage.Are you sure you want to enable
disaster recovery??
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help
(default is "Y"):
Name:
Id   : 1971
StartTime   :
EndTime   :
IsCancellable   : False
IsRestartable   : False
IsCompleted   : False
IsVisible   : True
IsScheduled   : False
PercentageCompleted : 0
Description :
Status   : Running
Owner   :
Error   :
Priority: None
Tasks   : {}
ParentJobID : 0
EventId : 0
JobTypeId :
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName :
HostId   : 0
RoleId   :
JobIds   :
    ErrorRecords : {}
_message :
_errorCode  : 0
```

Example 2: Disabling storage disaster recovery

```
Set-SmDisasterRecovery -Disable
```

This example syntax disables storage disaster recovery.

Name:

```
Id      : 1970
StartTime :
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Running
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId :
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName :
HostId : 0
RoleId :
JobIds :
ErrorRecords : {}
_message :
_errorCode : 0
```

Set-SmDomain

Modify a domain registered with SnapCenter Server.

Syntax

```
Set-SmDomain [-Name] <String> [-Protocol] <String> [-FQDN] <String>
[-IPAddresses] <String> [-DCHostNames] <String> [-Credential]
<PSCredential>
```

Detailed Description

Modify a domain registered with SnapCenter Server.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	NETBIOS name of the registered domain to be modified.	true	true (ByPropertyName)	
Protocol	Protocol of the domain to be modified.By default the protocol value is LDAP. You can specify LDAPS to use the secured windows active directory communication.	false	true (ByPropertyName)	
FQDN	FQDN of the domain to be modified.Used for both LDAP and LDAPS protocol, when you provide the correct FQDN while adding or modifying the domain with LDAP protocol, the domain resolves and the IP address that you might have entered using the IPAddresses parameter is not stored.	false	true (ByPropertyName)	
IPAddresses	Domain IP Addresses of the disjoint domain to be modified.When you provide the correct FQDN while adding or modifying the domain, the domain resolves and the IP address is not stored.	false	true (ByPropertyName)	
DCHostNames	Domain host name of the disjoint or the same domain to be modified.For LDAPS protocol, DCHostNames is a mandatory parameter. The IP address should resolve and the user should not be permitted to manually provide the IP address.	false	true (ByPropertyName)	
Credential	Provides local workgorup administrator credentials to execute a Set-SmDomain cmdlet.This is an optional parameter only can exercise if Open-SmConnection is broken due to Active Directory connectivity using LDAPS protocol.	false	true (ByPropertyName)	

Examples

Example 1: Modify a domain registered with SnapCenter Server.

```
Set-SmDomain -Name ad12 -FQDN ad12.test.netapp.com -IPAddresses  
192.168.0.44
```

```
Modified the domain ad12.  
Id : 0  
Name : ad12  
DomainFQDN : ad12.test.netapp.com  
DCHostIPAddresses : 192.168.0.44  
TrustedDomains :  
CreatedOn :  
ModifiedOn :  
Port : 389  
Protocol : LDAP  
DCHostNames:
```

Example 2: Modifying a registered domain protocol from LDAP to LDAPS.

```
Set-SmDomain -Name ad12 -DCHostNames WS2K12DC.ad12.test.netapp.com  
-Protocol LDAPS
```

```
Modified the domain ad12.  
Id : 0  
Name : ad12  
DomainFQDN : ad12.test.netapp.com  
DCHostIPAddresses : 192.168.0.44  
TrustedDomains :  
CreatedOn :  
ModifiedOn :  
Port : 636  
Protocol : LDAPS  
DCHostNames: WS2K12DC.ad12.test.netapp.com
```

Example 3: Modifying a registered domain protocol from LDAPS to LDAP.

```
Set-SmDomain -Name ad12
```

```
Modified the domain ad12.
Id : 0
Name : ad12
DomainFQDN : ad12.test.netapp.com
DCHostIPAddresses :
TrustedDomains :
CreatedOn :
ModifiedOn :
Port : 389
Protocol : LDAP
DCHostNames:
```

Example 4: Execute Set-SmDomain when Open-SmConnection is broken due to Active directory.

```
Set-SmDomain -Name ad12 -FQDN ad12.test.netapp.com -Credential
administrator
```

```
Modified the domain ad12.
Id : 0
Name : ad12
DomainFQDN : ad12.test.netapp.com
DCHostIPAddresses :
TrustedDomains :
CreatedOn :
ModifiedOn :
Port : 389
Protocol : LDAP
DCHostNames:
```

Set-SmDownloadRepository

Modifies the location of the installation package download repository.

Syntax

```
Set-SmDownloadRepository [-Path] <String>
```

Detailed Description

Modifies the location of the installation package download repository.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Path	New plug-in repository path.	true	true (ByPropertyName)	

Examples

Example 1: Modifying the installation download repository location

```
Set-SmDownloadRepository -Path "c:\inetpub\wwroot\SnapCenter\Repository"
```

This example syntax specifies a new repository location.

Set-SmESXInfo

Updates the parent ESX information for SQL hosts.

Syntax

```
Set-SmESXInfo [-HostName] <String>
```

Detailed Description

Updates the parent ESX information for SQL hosts. The host must be of SQL type.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName	The name of the SQL host.	true	true (ByPropertyName)	

Examples

Example 1: Updating the parent ESX information for an SQL host

```
Set-SmESXInfo -HostName csmdev-smsql-02.sddev.mycompany.com -Verbose
```

This example syntax updates the parent ESX information for the specified SQL host.

```
VERBOSE: Start Set-SmESXInfo  
ESX information updated successfully
```

VERBOSE: Set-SmESXInfo ended successfully.

Set-SmHost

Modifies either the port or the group Managed Service Account (gMSA) or the credential name of the host.

Syntax

```
Set-SmHost [-HostName] <String> [-Port] <UInt16> [-CredentialName]
<String> [-UseGMSA] <Boolean> [-GMSAName] <String> [-
PushServerCredentialsToSCV] <SwitchParameter> [-Force]
<SwitchParameter>
```

Detailed Description

Modifies either the port or the group Managed Service Account (gMSA) or the credential name of the host. Only one parameter can be modified at a time.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName	The name of the host whose port or credential name will be modified.	true	true (ByPropertyName)	
Port	The port to be modified.	false	true (ByPropertyName)	
CredentialName	The credential name to be modified.	false	true (ByPropertyName)	
UseGMSA	Modify the plug-in services logon from gMSA to domain or LocalSystem.	false	true (ByPropertyName)	
GMSAName	The group Managed Service Account (gMSA) name to be modified.	false	true (ByPropertyName)	
PushServerCredentialsToSCV	Push the credentials to the SCV host.	false	true (ByPropertyName)	
Force		false	true (ByPropertyName)	

Examples

Example 1: Modifying port from 8145 to 8185

```
Set-SmHost -HostName h1 -Port 8185
```

This example modifies the port of host h1 to 8185.

Example 2: Modifying credential name from RunAs1 to RunAs2

```
Set-SmHost -HostName h1 -CredentialName RunAs2
```

This example modifies the credential name of host h1 to RunAs2.

Example 3: Modifying group Managed Service Account (gMSA) name from NewDomain\gMSAName1\$ to NewDomain\gMSAName2\$

```
Set-SmHost -HostName h1.NewDomain.com -UseGMSA:$true -GMSAName  
NewDomain\gMSAName2$
```

This example modifies the gMSA name for host h1.NewDomain.com to NewDomain\gMSAName2\$.

Example 4: Disabling group Managed Service Account (gMSA)

```
Set-SmHost -HostName h1.NewDomain.com -UseGMSA:$false
```

This example disables the gMSA and modifies the plug-in services to Domain or LocalSystem for host h1.NewDomain.com.

Set-SmLogSettings

Sets the log file retention for SnapCenter, hosts, and plug-ins.

Syntax

```
Set-SmLogSettings [-Server] <> [-MaxFileSize] <Int64> [-  
MaxSizeRollBackups] <Int32> [-JobLogsMaxFileSize] <Int64> [-LogLevel]  
<LogLevel> [-UniversalTime] <Boolean> [-Agent] <> [-HostName]  
<String> [-MaxFileSize] <Int64> [-MaxSizeRollBackups] <Int32> [-  
JobLogsMaxFileSize] <Int64> [-LogLevel] <LogLevel> [-UniversalTime]  
<Boolean> [-Plugin] <> [-HostName] <String> [-PluginCode]  
<PluginCode> [-MaxFileSize] <Int64> [-MaxSizeRollBackups] <Int32> [-  
JobLogsMaxFileSize] <Int64> [-LogLevel] <LogLevel> [-UniversalTime]  
<Boolean>
```

Detailed Description

Sets the log file retention for SnapCenter, hosts, and plug-ins. Log file settings govern log severity level, the maximum log file size, the maximum number of log file backups to retain, and the maximum size for all the job log files.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Server	Indicates that you want to create log settings for the SnapCenter server.	true	false	
MaxFileSize	The log file size that triggers a roll over.	true	false	
MaxSizeRollBackups	The number of roll over log files that are retained.	true	false	
JobLogsMaxFileSize	Specifies the maximum file size of all job log files. Job logs are created on an individual job basis. JobLogsMaxFileSize specifies the total size for all job log files. When job log files exceed the maximum size, the oldest files are deleted.	true	false	
LogLevel	Sets the log severity level. Valid values are: all, debug, info, warn, error, fatal, or off.	true	false	
UniversalTime	Enables message logging in UTC time for installations in different geological locations. Use \$True to enable UniversalTime or \$False to disable UniversalTime.	false	false	
Agent	Indicates the SnapCenter agent on which you want to create the log settings. Possible values are -server, -host, or -plugin.	true	false	
HostName	Specifies the host name on which the log files are created. The host should be part of the SnapCenter managed host list and the host is required when you want to create log settings for the SnapCenter host agent or plug-ins.	true	false	
Plugin	Indicates that you want to specify log file settings for a plug-in host.	true	false	

Name	Description	Required ?	Pipeline Input	Default Value
PluginCode	Indicates the plug-in code for the plug-in host on which you want to specify log settings. Valid plug-in values are SCSQL, SCO, SCV.	true	false	

Examples

Example 1: Setting SnapCenter server log settings

```
Set-SmLogSettings -JobLogsMaxFileSize 100MB -LogLevel All -MaxFileSize 10MB -MaxSizeRollBackups 10 -Server
```

This example syntax sets SnapCenter server log settings.

```
LogSettingsId : 1
LogSettingsType: Server
LogLevel      : All
MaxFileSize   : 10485760
MaxSizeRollBackups : 10
JobLogsMaxFileSize : 104857600
HostId        :
HostName      :
PluginInfoId   :
PluginCode     : NONE
```

Example 2: Setting plugin log settings

```
Set-SmLogSettings -Plugin -PluginCode SMSQL -HostName host123
-JobLogsMaxFileSize 100MB -LogLevel Info -MaxFileSize 10MB
-MaxSizeRollBackups 10
```

This example syntax sets plug-in log settings.

```
LogSettingsId : 1
LogSettingsType: Plugin
LogLevel      : Info
MaxFileSize: 10485760
MaxSizeRollBackups : 10
JobLogsMaxFileSize : 104857600
HostId :
HostName      :
PluginInfoId   :
PluginCode    : SMSQL
```

Example 3: Setting SnapCenter host agent log settings

```
Set-SmLogSettings -Agent -HostName bryankDev -JobLogsMaxFileSize 100MB
-LogLevel Info -MaxFileSize 10MB -MaxSizeRollBackups 10
```

This example syntax sets plug-in log settings.

```
LogSettingsId : 1
LogSettingsType: Agent
LogLevel      : Info
MaxFileSize: 10485760
MaxSizeRollBackups : 10
JobLogsMaxFileSize : 104857600
HostId :
HostName      :
PluginInfoId   :
PluginCode    : NONE
```

Example 4: Setting log messaging to UTC time

```
Set-SmLogSettings -Agent -HostName <plugin-hostname> -JobLogsMaxFileSize
10MB -LogLevel Debug -MaxFileSize 10MB -MaxSizeRollBackups 10
-UniversalTime $True
```

This example syntax sets log messaging to Universal time.

Set-SmMaintenanceMode

Sets a host to maintenance or production mode.

Syntax

```
Set-SmMaintenanceMode [-HostNames] <String> [-MaintenanceStatus]
<SmMaintenanceStatus>
```

Detailed Description

Sets a host to maintenance or production mode. No scheduled jobs are executed for a host in maintenance mode.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostNames	The names of the hosts for which you want to change the maintenance mode.	true	true (ByPropertyName)	
MaintenanceStatus	Specifies the maintenance status of the specified hosts. The maintenance status is Production or UnderMaintenance.	true	true (ByPropertyName)	

Examples

Example 1: Setting a host to production mode

```
Set-SmMaintenanceMode -HostNames @("SQL_Host") -MaintenanceStatus
Production
```

This example syntax sets the specified host to production mode.

Example 2: Setting multiple hosts to maintenance mode

```
Set-SmMaintenanceMode -HostNames @("SQL_Host", "Verification_Host")
-MaintenanceStatus UnderMaintenance
```

This example syntax sets the specified hosts to maintenance mode.

Set-SmMultiFactorAuthentication

To Enable or disable the MFA feature or to configure the MFA for the SnapCenter GUI, Rest API, PowerShell and sccli.

Syntax

```
Set-SmMultiFactorAuthentication [-IsGuiMFAEnabled] <> [-IsRestApiMFAEnabled ] <> [-IsCliMFAEnabled ] <> [-Path] <> [-Path] <> [-IsGuiMFAEnabled] <> [-IsRestApiMFAEnabled ] <> [-IsCliMFAEnabled ] <>
```

Detailed Description

To enable or disable the MFA feature or to configure the MFA for the SnapCenter GUI, Rest API, PowerShell and sccli.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
IsGuiMFAEnabled	Specifies the SnapCenter Server to enable or disable MFA for the SnapCenter GUI.	false	false	
IsRestApiMFAEnabled	Specifies the SnapCenter Server to enable or disable MFA for the SnapCenter Rest API.	false	false	
IsCliMFAEnabled	Specifies the SnapCenter Server to enable or disable MFA for the SnapCenter PowerShell and sccli.	false	false	
Path	Configure the MFA for the SnapCenter Server login with specified AD FS metadata file path.	false	false	

Examples

Example 1: Enabling MultiFactorAuthentication for GUI, Rest API, PowerShell and sccli

```
Set-SmMultiFactorAuthentication -IsGuiMFAEnabled $true  
-IsRestApiMFAEnabled $true -IsCliMFAEnabled $true -Path  
C:\ADFS_metadata\FederationMetadata.xml
```

This example syntax enables MFA for SnapCenter GUI, Rest API, PowerShell and sccli configured with specified AD FS metadata file path.

IsGuiMFAEnabled = True

ADFSConfigFilePath = C:\ADFS_metadata\FederationMetadata.xml

SCConfigFilePath = c:\ProgramData\NetApp\SnapCenter\Package Repository\SnapCenterMFAMetadata.xml

IsRestApiMFAEnabled = True

IsCliMFAEnabled = True

ADFSHostName = adfs19.ad19domain.com

Example 2: Disabling MultiFactorAuthentication for SnapCenter GUI

```
Set-SmMultiFactorAuthentication -IsGuiMFAEnabled $false
```

This example syntax disables MFA for SnapCenter GUI.

IsGuiMFAEnabled = False

ADFSConfigFilePath = null

SCConfigFilePath = null

IsRestApiMFAEnabled = False

IsCliMFAEnabled = False

ADFSHostName = null

Example 3: Enabling MultiFactorAuthentication for Rest API PowerShell and sccli

```
Set-SmMultiFactorAuthentication -IsRestApiMFAEnabled $true  
-IsCliMFAEnabled $true -Path C:\ADFS_metadata\FederationMetadata.xml
```

This example syntax enables MFA for SnapCenter Rest API, PowerShell and sccli configured with specified AD FS metadata file path.

IsGuiMFAEnabled = False

ADFSConfigFilePath = C:\ADFS_metadata\FederationMetadata.xml

SCConfigFilePath = null

IsRestApiMFAEnabled = True

IsCliMFAEnabled = True

ADFSHostName = adfs19.ad19domain.com

Example 4: Enabling MultiFactorAuthentication only for PowerShell and sccli

```
Set-SmMultiFactorAuthentication -IsCliMFAEnabled $true -Path  
C:\ADFS_metadata\FederationMetadata.xml
```

This example syntax enables MFA for SnapCenter PowerShell and sccli configured with specified AD FS metadata file path.

IsGuiMFAEnabled = False

ADFSSConfigFilePath = C:\\ADFS_metadata\\FederationMetadata.xml

SCConfigFilePath = null

IsRestApiMFAEnabled = False

IsCliMFAEnabled = True

ADFSSHostName = adfs19.ad19domain.com

Example 5: Disabling MultiFactorAuthentication for GUI, Rest API, PowerShell and sccli

```
Set-SmMultiFactorAuthentication -IsGuiMFAEnabled $False  
-IsRestApiMFAEnabled $False -IsCliMFAEnabled $False
```

This example syntax disables MFA for SnapCenter GUI, Rest API, PowerShell and sccli.

IsGuiMFAEnabled = False

ADFSSConfigFilePath = null

SCConfigFilePath = null

IsRestApiMFAEnabled = False

IsCliMFAEnabled = False

ADFSSHostName = null

Example 6: Disabling MultiFactorAuthentication for Only for Rest API

```
Set-SmMultiFactorAuthentication -IsRestApiMFAEnabled $False
```

This example syntax disables MFA only for SnapCenter Rest API.

IsGuiMFAEnabled = True

ADFSSConfigFilePath = C:\\ADFS_metadata\\FederationMetadata.xml

SCConfigFilePath = null

IsRestApiMFAEnabled = False

IsCliMFAEnabled = True

ADFSSHostName = adfs19.ad19domain.com

Example 7: Update MultiFactorAuthentication configuration

```
Set-SmMultiFactorAuthentication -Path C:\data\FederationMetadata.xml
```

This example syntax updates MFA configuration for SnapCenter configured with specified AD FS metadata file path.

IsGuiMFAEnabled = True

ADFSConfigFilePath = C:\\data\\FederationMetadata.xml

SCConfigFilePath = null

IsRestApiMFAEnabled = False

IsCliMFAEnabled = False

ADFSSHostName = adfs19.ad19domain.com

Set-SmPluginConfiguration

Sets the host plug-in configuration.

Syntax

```
Set-SmPluginConfiguration [-PluginCode] <PluginCode> [-HostName]  
<String> [-HostLogFolders] <Hashtable[]> [-FCIInstanceLogFolders]  
<Hashtable[]> [-IgnoreVscConfiguredCheck] <Boolean>
```

Detailed Description

Sets the host plug-in configuration.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PluginCode	Specifies the plug-in type. Valid types are SCW and SCSQL.	true	true (ByPropertyName)	
HostName	Specifies the host name for which you are setting the plug-in configuration.	true	true (ByPropertyName)	
HostLogFolders	Specifies the host log folders.	false	true (ByPropertyName)	
FCIInstanceLogFolders	Specifies the FCI instance log folders.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
IgnoreVscConfigure dCheck		false	true (ByValue, ByPropertyName)	

Examples

Example 1: Setting the plugin configuration for a standalone host

```
Set-SmPluginConfiguration -PluginCode SCSQL -HostName localhost
-HostLogFolders @{"Host"="vise-f6";"Log Folder"="S:\LOGBACKUP"}
```

This example syntax sets the plug-in configuration for the specified standalone host.

Set-SmPluginConfiguration

SnapCenter has detected that your host is running on a VM. If you use an VMDK or RDM environment, you must add a Virtual Storage Console for vSphere type host; however, if your VM uses iSCSI direct attached disks, you can proceed with the existing host setup.

```
Choose Yes, if you are using a VM in a VMDK or RDM environment
Choose No, if you are using a VM with iSCI direct attached disks only
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default
is "Y"):
```

Example 2: Setting the plugin configuration for a cluster host

```
Set-SmPluginConfiguration -PluginCode SCSQL
-HostName V67VMCLUS -HostLogFolders @{"Host"="v6vmw2012r2";"Log
Folder"="S:\LogBackup"},@{"Host"="v7vmw2012r2";"Log
Folder"="S:\LogBackup"} -FCIInstanceLogFolders @{"FCI Instance"="vise-
f6\FCIInstance";"Log Folder"="R:\"}
```

This example syntax sets the plug-in configuration for the specified cluster.

Set-SmPluginConfiguration

SnapCenter has detected that your host is running on a VM. If you use an VMDK or RDM environment, you must add a Virtual Storage Console for vSphere type host; however, if your VM uses iSCSI direct attached disks, you can proceed with the existing host setup.

```
Choose Yes, if you are using a VM in a VMDK or RDM environment
Choose No, if you are using a VM with iSCI direct attached disks only
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default
is "Y"):
```

Set-SmPolicy

Modifies an existing policy.

Syntax

```
Set-SmPolicy [-PolicyName] <String> [-PolicyType] <SmPolicyType> [-  
PluginPolicyType] <PluginCode> [-Description] <String>
```

Detailed Description

Modifies an existing policy.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PolicyName	Specifies the policy you want to change.	true	true (ByPropertyName)	
PolicyType	Specifies the policy type. Valid value is Backup.	true	true (ByPropertyName)	
PluginPolicyType	Specifies the type of plug-in. You need to specify a plug-in type because policies are settings that are specific to one type of plug-in.Valid plug-in policies types are SCSQL, SCO and HANA.	true	true (ByPropertyName)	
Description	Specifies an optional description of the policy.	false	true (ByPropertyName)	
UtmType	Type of up to the minute (UTM) retention settings to apply to log backups. Possible values are days and count.	false	true (ByPropertyName)	
UtmCount	Up to the minute (UTM) retention by count.	false	true (ByPropertyName)	
UtmDays	Up to the minute (UTM) retention by days.	false	true (ByPropertyName)	
SqlBackupType	SQL backup type. Possible values are LogBackup, FullBackup, and FullBackupAndLogBackup.	true	true (ByPropertyName)	
DatabasesPerGroup	Maximum number of databases in a group. This is applicable only for full backup.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
CopyOnlyBackup	Determines whether the full backup is a copy only backup.	false	true (ByPropertyName)	
AGBackupType	Availability Group backup type. Possible values are UsePreferredBackupReplica and UseSpecifiedBackupReplica.	false	true (ByPropertyName)	
AGBackupReplicaType	Availability Group backup replica type. Possible values are Primary, Secondary, and All.	false	true (ByPropertyName)	
AGBackupPriorityMinimum	Availability Group backup minimum priority.	false	true (ByPropertyName)	
AGBackupPriorityMaximum	Availability Group backup maximum priority.	false	true (ByPropertyName)	
CreateLogFolderSnapshot	Create Log folder Snapshot copy.	false	true (ByPropertyName)	
EnableLogFolderSnapshotRetention	Enable Log folder Snapshot copy retention.	false	true (ByPropertyName)	
DeleteLogFolderSnapshotInExcess	Delete log folder Snapshot copies in excess of specified count. If other options are specified, then that will be ignored and only the log snapshot retention value will get modified.	false	true (ByPropertyName)	
DeleteLogFolderSnapshotOlderThan	Delete log folder Snapshot copies that are older than specified days.	false	true (ByPropertyName)	
VerifyLogBackup	Enable log backup verification after backup.	false	true (ByPropertyName)	
DBCC_NOINDEX	DBCC options NOINDEX.	false	false	
DBCC_ALL_ERROR_MSGS	DBCC options ALL_ERRORMSG.	false	true (ByPropertyName)	
DBCC_NO_INFOMSGS	DBCC options NO_INFOMSGS.	false	true (ByPropertyName)	
DBCC_TABLOCK	DBCC options TABLOCK.	false	true (ByPropertyName)	
DBCC_PHYSICALONLY	DBCC options PHYSICALONLY.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
UpdateSnapMirrorAfterBackup	Update SnapMirror copy after backup. This option is not applicable for SAP HANA policy of File-Based Backup type.	false	true (ByPropertyName)	
UpdateSnapVaultAfterBackup	Update SnapVault copy after backup. This option is not applicable for SAP HANA policy of File-Based Backup type.	false	true (ByPropertyName)	
MirrorVaultUpdateRetryCount	Number of retries to ensure SnapMirror or SnapVault update is triggered.	false	true (ByPropertyName)	
SnapVaultLabel	Label for SnapVault copy.	false	true (ByPropertyName)	
AllowSavedStateBackup	Allow saved state backup.	false	true (ByPropertyName)	
DeleteBackupInExcess	Delete backup in excess of specified days, it is applicable to only SnapCenter Plug-in for VMware vSphere, if it is used with other plug-ins it will be ignored.	false	true (ByPropertyName)	
DeleteBackupOlderThan	Delete backups older than specified days, it is applicable to only SnapCenter Plug-in for VMware vSphere, if it is used with other plug-ins it will be ignored.	false	true (ByPropertyName)	
PreScriptCommandVerification		false	true (ByPropertyName)	
PreScriptArgumentsVerification		false	true (ByPropertyName)	
PostScriptCommandVerification		false	true (ByPropertyName)	
PostScriptArgumentsVerification		false	true (ByPropertyName)	
ScriptTimeoutVerification		false	true (ByPropertyName)	
ScheduleType	The schedule type. Possible values are None, Hourly, Weekly, Daily, and Monthly.	false	true (ByPropertyName)	
RetentionSettings	Specifies in a hashtable the retention settings for the policy.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
PreScriptCommand	Prescript file UNC path with proper privileges for scripts accessibility, ('\\server\share\path\file' for Universal Naming Convention (UNC) names).	false	true (ByPropertyName)	
PreScriptArguments	Specifies the prescript arguments.	false	true (ByPropertyName)	
PostScriptCommand	Postscript file UNC path with proper privileges for scripts accessibility, ('\\server\share\path\file' for Universal Naming Convention (UNC) names).	false	true (ByPropertyName)	
PostScriptArguments	Specifies the postscript arguments.	false	true (ByPropertyName)	
ScriptTimeout	Specifies script timeout value in seconds.	false	true (ByPropertyName)	
VerificationScheduleType	Specifies when to run verification.	false	true (ByPropertyName)	
DeleteCloneOnScheduleExpiry	Removes a clone during the last run of a scheduled job.If this parameter is not set, then the last run of a schedule also runs a clone life cycle and creates a cloned database.This parameter does not apply to jobs that are not scheduled or to one time job schedules.	false	true (ByPropertyName)	
BackupPolicyName	Specifies the backup policy name.	true	true (ByPropertyName)	
CloneType	Specifies the clone type. Possible values are Primary and Secondary.	false	true (ByPropertyName)	
VerifyOnSecondary	Specifies whether to verify on Secondary or not.	false	false	
NumOfBackups	Number of backups to be verified.	false	false	
PluginParams		false	true (ByPropertyName)	
DominoChangeInfoPath		false	true (ByPropertyName)	
DominoDatabaseType		false	true (ByPropertyName)	
DominolniniPath		false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
DominoRestoreFilePath		false	true (ByPropertyName)	
DominoRestoreTime		false	true (ByPropertyName)	
Lotus		false	true (ByPropertyName)	
NotesExecDirectory		false	true (ByPropertyName)	
DominoDisableReplication		false	true (ByPropertyName)	
DominolgnoreCorruptedDB		false	true (ByPropertyName)	
DBMCLiCmd		false	true (ByPropertyName)	
HandleLogWriter		false	true (ByPropertyName)	
MaxDBBGServerPrefix		false	true (ByPropertyName)	
MaxDBUpdateHistLog		false	true (ByPropertyName)	
SQLCLiCmd		false	true (ByPropertyName)	
XUserEnable		false	true (ByPropertyName)	
DB2Cmd		false	true (ByPropertyName)	
SybaseISQLCmd		false	true (ByPropertyName)	
SybaseManifest		false	true (ByPropertyName)	
SybaseManifestDelete		false	true (ByPropertyName)	
SybaseManifestFormat		false	true (ByPropertyName)	
SybaseTranDump		false	true (ByPropertyName)	
SybaseTranDumpCompress		false	true (ByPropertyName)	
SybaseTranDumpFormat		false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
OracleBackupType	Modifies the Oracle backup type. Type values are Online, Offline mount, and Offline shutdown.	true	true (ByPropertyName)	
OracleBackupScope	Modifies the Oracle backup scope. This parameter is only valid when the backup type is Online. Backup scope values are Full, Data, and Log.	true	true (ByPropertyName)	
OracleSkipPDBSaveState	Modifies the skip PDB save state. This parameter is only available when you select Offline shutdown backup type. Values are either True or False.	false	true (ByPropertyName)	
DeleteAllArchiveLogs	Prunes (deletes) all archive logs after Full or Log backups.	false	true (ByPropertyName)	
DeleteArchiveLogsOlderThan	Modifies the number of days before archive logs older than a specified number of days are pruned (deleted). This parameter supports the use decimals to enable you to specify a fraction of a day. For example, 2.5 represents 2 days and 12 hours, and 0.04 represents 1 hour.	false	true (ByPropertyName)	
DeleteArchiveLogFromAllDestination	Modifies whether archive logs are pruned on all destinations or only on backed up destinations. If the value is True, archive logs are pruned on all destinations. If the value is False, archive logs are pruned only on backed up destinations.	false	true (ByPropertyName)	
DeleteArchiveLogBackupInExcess	Modifies the number of archive log backups deleted in excess of the specified backup count.	false	true (ByPropertyName)	
DeleteArchiveLogBackupOlderThan	Modifies the number of archive log backups deleted that are older than the specified number of days. This parameter supports the use decimals to enable you to specify a fraction of a day. For example, 2.5 represents 2 days and 12 hours, and 0.04 represents 1 hour.	false	true (ByPropertyName)	
CatalogBackupWithOracleRMAN		false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
ScwBackupType	Specifies the type of SnapCenter for Windows backup. Valid values are CrashConsistent and FilesystemConsistent.	true	true (ByPropertyName)	
SceBackupType	Specifies the backup type you want SnapCenter for Microsoft Exchange Plug-in to use.	true	true (ByPropertyName)	
UtmCounts		false	true (ByPropertyName)	
BackupTruncatedTransactionLog		false	true (ByPropertyName)	
BackupActiveCopies		false	true (ByPropertyName)	
BackupCopiesOnServer		false	true (ByPropertyName)	
BackupType	This is a SAP HANA database specific parameter. Specifies the type of SAP HANA backup. The possible values are FileBasedBackup and SnapshotBasedBackup.	true	true (ByPropertyName)	

Examples

Example 1: Modifying an existing Microsoft SQL policy

```
Set-SmPolicy -PolicyName test -PluginPolicyType SCSQL -PolicyType Backup
-SqlBackupType FullBackup -ScheduleType Hourly -DaysInterval 8 -StartTime
$SystemTime -EndTime $SystemTimeExpire -SchedulerType SQL
```

This example syntax modifies an existing Microsoft SQL policy.

Example 2: Modifying an existing Oracle policy

```
Set-SmPolicy -PolicyName 1 -PolicyType Backup -PluginPolicyType SCO
-OracleBackupType ONLINE -OracleBackupScope FULL -DeleteAllArchiveLogs
$true -DeleteArchiveLogFromAllDestination $true
-DeleteArchiveLogBackupInExcess 5
```

Modifies an existing Oracle policy.

Example 3: Modifying an existing Windows backup policy

```
Set-SmPolicy -PolicyName scw_policy3 -PolicyType Backup -PluginPolicyType  
SCW -ScwBackupType CrashConsistent
```

This example syntax modifies an existing Windows SCW policy.

Example 4: Modifying an existing SAP HANA backup policy of type SnapshotBasedBackup

```
Set-SmPolicy -PolicyName hana_snapshotbased -PolicyType Backup  
-PluginPolicyType HANA -BackupType SnapshotBasedBackup  
-UpdateSnapMirrorAfterbackup $true -UpdateSnapVaultAfterbackup $true  
-SnapVaultLabel slabel
```

This example syntax modifies an existing SAP HANA backup policy of type SnapshotBasedBackup.

Example 5: Modifying an existing Microsoft SQL policy with SnapLock Retention

```
Set-SmPolicy -PolicyName SCSQL_Snaplock_Policy -PluginPolicyType SCSQL  
-PolicyType Backup -SqlBackupType FullBackupAndLogBackup -ScheduleType  
Daily -retentionsettings @{"BackupType"="DATA";  
"ScheduleType"="DAILY";"RetentionDays"="16";"SnapLockRetentionPeriod"=16;"  
SnapLockRetentionPeriodType"="Days"},@{"BackupType"="LOG";  
"ScheduleType"="DAILY";"RetentionCount"="9";"SnapLockRetentionPeriod"=16;"  
SnapLockRetentionPeriodType"="Days"}
```

INFO: Specifying a retention period prevents the Snapshot copies from being deleted until the SnapLock retention period expires. This could lead to retaining a larger number of Snapshot copies than the count specified in the policy.

```
ApplySnapvaultUpdate: False  
ApplyRetention      : True  
RetentionCount      : 0  
RetentionDays       : 16  
ApplySnapMirrorUpdate : False  
SnapVaultLabel      :  
MirrorVaultUpdateRetryCount : 3  
Retentions          : {, , }  
LastBackupStatus:  
LastBackupDate      :  
IncludeAcls         :  
AppPolicies          : {}  
Description          :  
PreScriptPath       :
```

```

PreScriptArguments  :
PostScriptPath      :
PostScriptArguments :
ScriptTimeOut       : 60
DateModified: 8/13/2023 6:56:10 PM
DateCreated  : 8/13/2023 6:56:10 PM
Schedule: SMCoreContracts.SmSchedule
PolicyType   : Backup
PluginPolicyType: SMSQL
InBuilt      : False
Schedules    : {}
AllowMultipleSchedules : False
Name: SCSQL_Snaplock_Policy
Type:
Id   : 4
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
Hosts     : {}
StorageName :
ResourceGroupNames :
PolicyNames :
Key : 0
NsmObjectID : 0
SizeOfSmObject : SMCoreContracts.SmObjectSize

Retention Settings
BackupType : DATA
SchedulerType : Daily
RetentionCount : 0
RetentionDays : 16
VerificationEnabled : False
NodeName:
SnapLockRetentionPeriod : 16
SnapLockRetentionPeriodType : Days

BackupType : LOG
SchedulerType : Daily
RetentionCount : 9
RetentionDays : 0
VerificationEnabled : False
NodeName:

```

```

SnapLockRetentionPeriod : 16
SnapLockRetentionPeriodType : Days

BackupType : LOG_SNAPSHOT
SchedulerType : None
RetentionCount : 2
RetentionDays : 0
VerificationEnabled : False
NodeName:
SnapLockRetentionPeriod :
SnapLockRetentionPeriodType :

```

Example 6: Modifying the Snapshot copy log retention

```

Set-SMPolicy -PolicyName 'Log_policy_1' -PolicyType 'Backup' -Description
'log backup Policy' -retentionsettings
@{"BackupType"="DATA";"RetentionCount"="2"},@{"BackupType"="LOG";"RetentionCount"="2"},@{"BackupType"="LOG_SNAPSHOT";"RetentionCount"="3"}
-pluginpolicytype 'SCSQL' -sqlbackuptype 'logbackup'

```

This example modifies the Snapshot copy log retention. When you change the retention setting, you must also specify the other cmdlet parameters, otherwise, the current settings will override the default settings.

Example 7: Modifying log snapshot copy retention value without resetting the other policy settings

```

Set-SmPolicy -PolicyName 'test' -PolicyType Backup -PluginPolicyType
'SCSQL' -DeleteLogFolderSnapshotInExcess 2 -SqlBackupType
'fullbackupandlogbackup'

```

This example modifies the log snapshot copy retention value. If other policy options are specified then these options will be ignored and only retention value will be modified.

Set-SmProtectResource

Modifies policies and schedules of the resource.

Syntax

```

Set-SmProtectResource [-ArchivedLocators] <Hashtable[]> [-PluginCode]
<PluginCode> [-EnableEmail] <> [-EmailPreference]
<SmEmailNotificationPreference> [-RemoveCustomSnapShot] <>

```

Detailed Description

Modifies policies and schedules of the resource.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ArchivedLocators	Specifies in a hashtable the secondary storage system details for each unique primary storage system resource in the resource group. For example:- ArchivedLocators @{Primary="my_vs1:my_vol_iscsi";Secondary="my_vs1:my_vol_iscsi_SECONDARY"}	false	true (ByPropertyName)	
PluginCode	Specifies the plug-in code of the host for which you are creating a backup resource group. Valid values are SCSQL, SCW, and SCO.	true	true (ByPropertyName)	
EnableEmail	Specifies whether to enable or disable email.	false	false	
EmailPreference	Specifies when you will receive e-mail notifications. Possible values: Always, Never, OnError, OnErrorOrWarning.	false	false	
RemoveCustomSnapshot	Specifies removal of the custom naming format of the Snapshot copy.	false	true (ByPropertyName)	
BackupArchiveLogsAfterRecentMissingOne	This option is only valid for SCO plugin code. Specifies that you want to backup archive log files, which are created after the most recent missing archive log files and ignore the files created prior to it. If this option is not specified, then all archive log files except the missing archive log files are backed up.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
ExcludeArchiveLogPathsFromBackup	This option is only valid for SCO plugin code. Specifies the archive log destinations to be excluded from backup. Archive log files present in the specified destinations will be excluded during log backup. Multiple entries can be specified using comma separated list. For example: -ExcludeArchiveLogPathsFromBackup '/arch/logs/on/local/disk1, /arch/logs/on/local/disk2'.	false	true (ByPropertyName)	
Resources	Specifies the resource you want to protect. You must provide the resource information in a key value format, and it must contain the resource name, type, and the host on which it is located. For example, -Resource@{"Host"="host.example.com";"Type"="SQL Database";"Names"="NB-MVA-DEV054\newdb"} For Oracle Database, the format is -Resources @{"Host"="host.example.com";"Oracle Database"="db"}. For Oracle Application Volume, the format is -Resources @{"Host"="host.example.com";"Application Volume"="appVol"}.	true	true (ByPropertyName)	
Description	Modifies policies and schedules of the resource.	false	true (ByPropertyName)	
Tag	Enables you to apply a unique tag to help identify the resources.	false	true (ByPropertyName)	
Policies	Specifies the list of policies associated with the resource group. Multiple policies can be added as a comma-separated list.	false	true (ByPropertyName)	
SchedulerCredentialName		false	true (ByPropertyName)	
SchedulerInstance	Specifies the SQL Server Instance where the schedule is created and managed. This is mandatory if the policy has SQL scheduler enabled.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
VerificationServers	Specifies the list of verification servers to be associated with the resource group. Multiple verification servers can be added as a comma-separated list. This parameter is only required when you want to verify backups for SnapCenter Plug-in for Microsoft SQL Server resource groups.	false	true (ByPropertyName)	
CustomSnapshotFormat	Specifies that you want to use a custom Snapshot copy naming format. By default, a timestamp is appended to the Snapshot copy name. Valid values for CustomSnapshotFormat are : \$ResourceGroup, \$Policy, \$HostName, \$ScheduleType, \$CustomText	false	true (ByPropertyName)	
CustomText	Specifies the custom text in the custom Snapshot copy naming format.	false	true (ByPropertyName)	
DeleteBackupForDetachPolicies		false	true (ByPropertyName)	
Schedules	Specifies the schedule parameters to be used in the resource group. Schedule parameters can include the policy name, schedule type, schedule start and end times. You can specify multiple schedules in a comma-separated list, for example:- Schedules @{"PolicyName"="BackupPolicy";"ScheduleType"="OneTime"}, @{"PolicyName"="BackupPolicy";"ScheduleType"="Hourly";"StartTime"=" 05/27/2016 6:13 PM";"EndTime"="05/27/2016 6:30 PM"}	false	true (ByPropertyName)	
SchedulerType	Specifies the scheduler type. Possible values are Windows, SQL, None.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
VerificationSchedules	Specifies the verification schedules you want to add to the resource. The verification schedule includes the following parameters:"VerificationType" which defines if and when verification is performed. The following values are available:VERIFY_SCHEDULEDVERIFY_AFTER_BACKUPNONE"ScheduleType" represents the schedule type for the verification."BackupScheduleType" represents the schedule type for the backup-VerificationServers "WIN-DVGQDI73QR6" needs to be provided in the above command if we are creating verification enabled resource group for SCSQL plugin.Example:- VerificationSchedules @{"BackupScheduleType"="Hourly";"DeferredBackupCount"="1";"VerificationType"="VERIFY_SCHEDULED";"VerifyOnSecondary"="true";"BackupPolicyName"="sco_20july";"ScheduleType"="Weekly";"DaysOfTheWeek"="Monday";"StartTime"="20-Jul-16 6:42:12 PM";"EndTime"="25-Jul-16 6:42:12 PM"}	false	true (ByPropertyName)	
ConsistencyGroupSnapshot		false	true (ByPropertyName)	
ConsistencyGroupWafSync		false	true (ByPropertyName)	
ConsistencyGroupTimeout		false	true (ByPropertyName)	
SnapshotCreateCommand		false	true (ByPropertyName)	
UseFileSystemConsistentSnapshot		false	true (ByPropertyName)	
UseSnapcenterWithoutFileSystemConsistency		false	true (ByPropertyName)	
PreAppQuiesceCmd		false	true (ByPropertyName)	
PostAppQuiesceCmd		false	true (ByPropertyName)	
AppQuiesceCmd		false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
AppUnQuiesceCmd		false	true (ByPropertyName)	
PreAppUnQuiesceCmd		false	true (ByPropertyName)	
PostAppUnQuiesceCmd		false	true (ByPropertyName)	
PreExitCmd		false	true (ByPropertyName)	
PreSnapshotCmd		false	true (ByPropertyName)	
PostSnapshotCmd		false	true (ByPropertyName)	
ApplgnoreError		false	true (ByPropertyName)	
UseExternalSnapShot		false	true (ByPropertyName)	
ExternalSnapshotRegex		false	true (ByPropertyName)	
ConfigParams		false	true (ByPropertyName)	

Examples

Example 1: Modifying the Protection of a resource

```
Set-SmProtectResource -PluginCode SCSQL -Policies BackupPolicy
-Resources @{"Host"="host.example.com";"Type"="SQL Database";"Names"="NB-MVA-DEV054\newdb"} -Description "The protection of the resource is
modified"
-EnableAsupOnFailure
```

This example syntax modifies the protection of a resource.

Example 2

```
Set-SmProtectResource -Resources
@(@{"Host"="sccorelinux188.sccore.test.com";"Uid"="Set_CG_Timeout6";"Type"
="Instance";"Names"="Set_CG_Timeout6"}) -PluginCode 'DummyPlugin'
-consistencygrouptimeout 'Medium'
```

Example 3: Enable email during protecting resource

```
Set-SmProtectResource -PluginCode 'HANA' -Resources
@{"Host"="hanahost01.testlab.netapp.com";"Uid"="MDC\R71"}
    -EnableEmail -EmailPreference OnErrorOrWarning -EmailFrom
'snapcenter@netapp.com' -EmailTo 'backupteam@netapp.com' -EmailSubject
'SnapCenter HANA Backup Failure'
```

This example syntax enables email notification during the protection of a HANA resource.

Example 4: Modifying the Protection of an Oracle Application Volume resource

```
Set-SmProtectResource -PluginCode SCO -Policies "appVolPolicyModified"
-Resources @{"Host"="R8092776CF4V1.HNK2.com";"Application
Volume"="appVol"} -Description "protection is modified"
```

This example syntax modifies the protection policy of an Oracle application volume resource.

Set-SmReportSchedule

Modify the report schedule using this cmdlet.

Syntax

```
Set-SmReportSchedule [-Name] <String> [-Plugin] <PluginCode> [-
Enabled] <Boolean> [-ScheduleType] <String> [-DayOfTheWeek] <String>
[-DayOfTheMonth] <String> [-TriggerTime] <String> [-DocumentType]
<String> [-FromEmail] <String> [-Recipients] <String>
```

Detailed Description

Modify the report schedule by passing the required schedule name and the parameters. This command can be used to enable or disable a schedule.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Specify the name of the schedule to be modified.	true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
Plugin	Specify the plug-in code to generate the report. For custom plug-ins, specify the custom plug-in name for example, hana, mysql. Specify 'all' to generate report for "All Plug-ins".	true	true (ByPropertyName)	
Enabled	Specify the state as \$true or 1 to enable the schedule and \$false or 0 to disable the schedule. Disabled schedules will not be triggered.	false	true (ByPropertyName)	
ScheduleType	Specify the schedule type. Valid values are 'daily', 'weekly', and 'monthly'.	true	true (ByPropertyName)	
DayOfTheWeek	Specify the day of the week to run the schedule. Valid values are 'monday', 'tuesday', 'wednesday', 'thursday', 'friday', 'saturday', 'sunday'. This field is applicable only for weekly schedule.	false	true (ByPropertyName)	
DayOfTheMonth	Specify the day (number) of the month to run the schedule. The value should be between 0 and 28. Enter zero to run the schedule for the last day of the month. This field is applicable only for monthly schedule.	false	true (ByPropertyName)	
TriggerTime	Specify the TriggerTime HH:MM in 24 Hours format.	true	true (ByPropertyName)	
DocumentType	Specify the format of the report to be sent over e-mail. The valid formats are PDF and CSV. Add the comma separator if both the formats are needed.	true	true (ByPropertyName)	
FromEmail	Specify the e-mail address from which the report has to be sent.	true	true (ByPropertyName)	
Recipients	Specify the e-mail address to send the report. For multiple e-mail ID's, separate them by comma.	true	true (ByPropertyName)	

Examples

Example 1: Modifying plug-in of a report schedule.

```
Set-SmReportSchedule -Name schedule1 -Plugin SCO
```

This example modifies the plug-in of an existing schedule to 'SCO'. Plug-in value can be any specific plug-in or 'all'. Specify 'all', to generate the report for all the configured plug-ins. For the custom plug-ins specify the plug-in name instead of the plug-in code for example, hana, mysql.

Example 2: Modifying frequency of a report schedule.

```
Set-SmReportSchedule -Name schedule1 -ScheduleType weekly -DayOfTheWeek  
sunday -TriggerTime 1:10
```

This example modifies the frequency of an existing schedule to weekly. The ScheduleType, DayOfTheWeek/DayOfTheMonth, and TriggerTime constitutes a frequency, hence all these values should be specified to modify the frequency.

Example 3: Modifying From and Recipients e-mail id(s) of a report schedule.

```
Set-SmReportSchedule -Name schedule1 -FromEmail user@domain.com  
-Recipients "user1@domain.com,user2@domain.com"
```

This example modifies From and Recipients e-mail ids of an existing schedule. FromEmail can be any single valid e-mail id and Recipients can be a single or multiple comma separated e-mail ids.

Example 4: Disabling a report schedule.

```
Set-SmReportSchedule -Name schedule1 -Enabled $false
```

This example disables a report schedule. The parameter \$true or 1 will enable the schedule and \$false or 0 will disable the schedule. Disabled schedules will not be triggered.

Set-SmRepositoryConfig

Enables you to rebuild the slave repository from the master repository and enables you to fail over the repository to the specified node.

Syntax

```
Set-SmRepositoryConfig [-ServerToRebuild] <String> [-Force] <> [-  
RebuildSlave] <> [-Force] <> [-ActiveMaster] <String> [-Force] <>  
[-Credential] <PSCredential> [-SMSbaseUrl] <String>
```

Detailed Description

Enables you to rebuild the slave repository from the master repository and enables you to fail over the repository to the specified node.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ServerToRebuild	Specifies the slave node for which you want to rebuild its repository from the master repository.	true	true (ByPropertyName)	
Force	Specifies that you want to force failover even when the slave repository data is not in sync with the master repository data.NOTE: Forcing failover might result in data loss.	false	true (ByPropertyName)	
RebuildSlave	Specifies that SnapCenter automatically identifies the slave node for which to rebuild the repository from the master repository.	true	true (ByPropertyName)	
ActiveMaster	Specifies the slave node that should become the master node.	true	true (ByPropertyName)	
Credential	Enables you to provide domain user credentials required to perform failover operations.	false	true (ByPropertyName)	
SMSbaseUrl	Specifies the SnapCenter Server base URL. The base URL includes the name or IP address of the SnapCenter Server, and, if the remote system is in a different domain than the SnapCenter Server, the domain name. For example: https://SNAPCENTER_SERVER_NAME/DOMAIN_NAME .	false	true (ByPropertyName)	

Examples

Example 1: Failover SnapCenter repository to the specified database server

```
Set-SmRepositoryConfig -ActiveMaster 10.236.221.0 -Credential  
mva\administrator
```

This example syntax fails over the SnapCenter repository to the specified database server.

```
Set-SmRepositoryConfig
Are you sure want to failover SnapCenter repository to '10.236.221.0'?
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help
(default is "Y"): Y
Name: SnapCenter Repository Failover to host '10.236.221.0'
Id : 25
StartTime : 4/28/2017 8:20:35 AM
EndTime : 4/28/2017 8:20:35 AM
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 100
Description :
Status : Completed
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 35
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName :
```

Example 2: Rebuilding a specified slave repository

```
Set-SmRepositoryConfig -ServerToRebuild 10.236.221.34
```

This example syntax rebuilds the specified slave repository.

```
Set-SmRepositoryConfig
Are you sure want to rebuild SnapCenter repository on host
'10.236.221.34'?
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help
(default is "Y"):
Name: SnapCenter Repository Rebuild on host '10.236.221.34' for High
Availability
Id : 17
StartTime : 4/28/2017 8:15:12 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 35
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName :
```

Example 3: Rebuilding the current slave repository

```
Set-SmRepositoryConfig -RebuildSlave
```

This example syntax rebuilds the current slave repository.

```
Set-SmRepositoryConfig
Are you sure want to rebuild SnapCenter passive repository?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help
(default is "Y"): Y
Name: SnapCenter Repository Rebuild on host '10.236.221.34' for High
Availability
Id : 11
StartTime : 4/28/2017 8:12:25 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Queued
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 35
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName :
```

Example 4: Failing over the SnapCenter repository to the specified database server from a remote host to SnapCenter using a base URL

```
Set-SmRepositoryConfig -ActiveMaster 10.236.221.34 -Credential
mva\administrator -SMSbaseUrl https://10.236.221.75:8146/
```

This example syntax fails over the SnapCenter repository to the specified database server from a remote host to SnapCenter using a base URL.

```
Set-SmRepositoryConfig
Are you sure want to failover SnapCenter repository to '10.236.221.34'?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help
(default is "Y"): Y
Name: SnapCenter Repository Failover to host '10.236.221.34'
Id : 20
StartTime : 4/28/2017 8:17:47 AM
EndTime : 4/28/2017 8:17:47 AM
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 100
Description :
Status : Completed
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 35
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName :
```

Example 5: Forcing SnapCenter repository failover with possibility of data loss

```
Set-SmRepositoryConfig -ActiveMaster 10.236.221.34 -Credential
mva\administrator -SMSbaseUrl https://10.236.221.75:8146/ -Force
```

This example syntax forces a SnapCenter repository failover even though data loss might occur.

```

Set-SmRepositoryConfig
There could be a possible data loss after SnapCenter repository failover
to '10.236.221.34'
Do you still want to continue?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help
(default is "Y"): Y
Name: SnapCenter Repository Failover to host '10.236.221.34'
Id : 32
StartTime : 4/28/2017 8:24:48 AM
EndTime : 4/28/2017 8:24:48 AM
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 100
Description :
Status : Completed
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 35
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName :

```

Set-SmRepositoryConfigSettings

Enables you to set MySQL High Availability repository configuration settings for the SnapCenter Server host.

Syntax

```

Set-SmRepositoryConfigSettings [-NLBClusterIP] <String> [-NLBNodeIPs]
<String>

```

Detailed Description

Enables you to set MySQL High Availability repository configuration settings for the SnapCenter Server host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
NLBClusterIP	Specifies the NLB Cluster IP address to which the SnapCenter Server NLB host is configured.	true	true (ByPropertyName)	
NLBNodeIPs	Specifies the list of NLB node IP addresses that are part of the NLB Cluster.	true	true (ByPropertyName)	

Examples

Example 1: Set MySQL High Availability repository configuration settings

```
Set-SmRepositoryConfigSettings -NLBClusterIP 10.236.221.0 -NLBNodeIPs 10.236.221.10,10.236.221.11
```

This example syntax sets the MySQL High Availability repository configuration settings.

Set-SmRepositoryPassword

Enables you to set the repository password for the SnapCenter Server host.

Syntax

```
Set-SmRepositoryPassword [-NewPassword] <SecureString> [-ConfirmPassword] <SecureString>
```

Detailed Description

Enables you to set the repository password for the SnapCenter Server host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
NewPassword	Specifies the new password to be configured for the repository.	true	false	
ConfirmPassword	Specifies the confirmation password to be configured for the repository.	true	false	

Examples

Example 1: Set the MySQL repository password

```
Set-SmRepositoryPassword
```

This example syntax sets the MySQL repository password to the specified value.

Set-SmResource

Modifies custom plug-in resource or an Oracle plug-in application volume resource settings.

Syntax

```
Set-SmResource [-UndoDeletion] <> [-ResourceId] <String> [-HostName]
<String> [-PluginCode] <PluginCode> [-ResourceId] <String> [-
HostName] <String> [-PluginCode] <PluginCode> [-RunAsName] <String>
```

Detailed Description

Used for modifying allowed attributes of a custom plug-in resource or an Oracle plug-in application volume resource. Also used for re-adding a resource that was soft deleted (resource which is protected).

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
UndoDeletion		false	true (ByPropertyName)	
ResourceId	: System-generated unique ID of a resource. For Oracle Application Volume Resource, its resource ID is of the format HostName\ResourceName.	false	true (ByPropertyName)	
HostName	Specifies the name or IP address of the host, only when the Agent or Plugin parameters are specified.	true	true (ByPropertyName)	
PluginCode	Specifies which plug-in configuration you want to modify. Possible inputs include MSFT_SQL, SCW, SCO, HANA and SCU. For example, for SnapCenter Plug-in for Microsoft SQL Server instances, the plug-in code is MSFT_SQL.	true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
RunAsName		false	true (ByPropertyName)	
TenantDatabaseName	This is a SAP HANA database specific parameter. It is the name of the tenant database. This parameter is deprecated for MultiTenant database container resources, it will be ignored and auto discovered internally.	false	true (ByPropertyName)	
TenantType	This is a SAP HANA database specific parameter. This specifies the tenant type of SAP HANA Multitenant Database Container. SingleTenant as tenant type is deprecated. SingleTenant as tenant type is deprecated	true	true (ByPropertyName)	MultiTenant

Examples

Example 1: Modifying custom plugin DB2 resource

```
Set-SmResource -HostName 'sccorelinux188.sscore.test.com' -PluginCode
'DB2' -ResourceName Database1 -ResourceType Database -StorageFootPrint
(@{"QTREE_NAME"="inventory_vol_sec";"VolumeName"="inventory_vol";"StorageS
ystem"="vserver_scauto_secondary"}) -Instance INST
```

Modify Storage footprint for Database of DB2 plug-in

```
Cmdlet Output: Successfully updated the resource
PluginName : DB2
Uid: INST\Database1
ParentUid  :
SmAppFiles :
SmAppFileStorageGroups : {}
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
LastBackupDate :
LastBackupStatus :
IsProtected: False
Name      : Database1
Type      : Database
Id : sccorelinux188.sccore.test.com\DummyPlugin\INST\DominoA
utoDatabase
Host      : sccorelinux188.sccore.test.com
UserName  :
Passphrase :
Deleted: False
Auth      :
IsClone: False
CloneLevel : 0
Hosts     :
```

Example 2: Modifying SAP HANA Multitenant Database Container

```
Set-SmResource -HostName 'scspr0204312001.gdl.englab.netapp.com'
-ResourceId 'scspr0204312001.gdl.englab.netapp.com\hana\MDC\M01'
-PluginCode 'hana' -DatabaseName 'newname' -ResourceType
'MultipleContainers' -SID 'M01' -TenantType 'SingleTenant'
```

Modify DatabaseName for SAP HANA database of type MultipleContainers.

```

cmdlet Set-SmResource at command pipeline position 1
Successfully updated the resource
PluginName : hana
Uid: MDC\M01
ParentUid :
SmAppFiles :
SmAppFileStorageGroups : {}
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
pluginConfiguration: SMCoreContracts.SmSCSAPHANAResourceParameters
LastBackupDate :
LastBackupStatus :
IsProtected: False
IsWindowsResource : False
Name : newname
Type : MultipleContainers
Id : scspr0204312001.gdl.englab.netapp.com\hana\MDC\M01
Host : scspr0204312001.gdl.englab.netapp.com
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts :
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0

```

Example 3: Undo SmResource deletion

```

Set-SmResource -HostName 'sccorelinux188.sccore.test.com' -PluginCode
'DB2' -ResourceName Database1 -UndoDeletion

```

Adds the deleted resource and is available for protection.

Example 4: Edit the database name and HDB Secure User Store Key for MultiTenant database container with multi tenants resource type.

```
Set-SmResource -HostName 'vp-hana2.gdl.englab.netapp.com' -PluginCode
'HANA' -DatabaseName MDC_MT_modified_again -ResourceType
MultipleContainers -StorageFootPrint
(@{'VolumeName'='VP_HANA2_data';'StorageSystem'='buck.gdl.englab.netapp.co
'}) -sid 'A12' -userstorekeys 'A12KEY_modified_again' -TenantType
'MultiTenant'
```

This sets the database name and HDB Userstore Key for MultiTenant database container with multi tenants resource type.

```
cmdlet Set-SmResource at command pipeline position 1
Successfully updated the resource
PluginName : hana
Uid: MBC\A12
ParentUid :
SmAppFiles :
SmAppFileStorageGroups : {}
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
pluginConfiguration: SMCoreContracts.SmSCSAPHANAResourceParameters
LastBackupDate :
LastBackupStatus :
IsProtected: False
IsWindowsResource : False
Name : MDC_MT_modified_again
Type : MultipleContainers
Id : vp-hana2.gdl.englab.netapp.com\hana\MDC\A12
Host : vp-hana2.gdl.englab.netapp.com
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts :
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0
```

Example 5: Edit the database name and HDB User Store Key for single tenant resource type.

```
Set-SmResource -HostName 'vp-hana2.gdl.englab.netapp.com' -PluginCode
'HANA' -DatabaseName MDC_ST_modified -ResourceType MultipleContainers
-StorageFootPrint
(@{'VolumeName'='lun_vol';'StorageSystem'='10.232.206.5'}) -sid 'A12'
-userstorekeys 'A12KEY_modified' -TenantType 'SingleTenant'
-TenantDatabaseName 'TDB'
```

This sets the database name and HDB User Store Key for single tenant resource type. In this example, the tenant database name is required to edit the resource, which is added in SnapCenter Server v4.2 or earlier.

```
cmdlet Set-SmResource at command pipeline position 1
Successfully updated the resource
PluginName : hana
Uid: TDB
ParentUid :
SmAppFiles :
SmAppFileStorageGroups : {}
PluginParams : SMCoreContracts.SmKeyValueCollection
MountPaths :
pluginConfiguration: SMCoreContracts.SmSCSAPHANAResourceParameters
LastBackupDate :
LastBackupStatus :
IsProtected: False
IsWindowsResource : False
Name : MDC_ST_modified
Type : MultipleContainers
Id : vp-hana2.gdl.englab.netapp.com\hana\TDB
Host : vp-hana2.gdl.englab.netapp.com
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts :
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0
```

Example 6: Edit an Oracle Application Volume Resource storage footprint

```
Set-SmResource -HostName 'R8092776CF4V1.HNK2.com' -PluginCode 'SCO'
-ResourceName appVol -StorageFootPrint
@(@{"VolumeName"="vol_test1";"StorageSystem"="10.232.206.165"},@{"VolumeName"="vol_test2";"LunName"="lun_test2";"StorageSystem"="10.232.206.165"},@{"Qtreename"="qtree_test1";"VolumeName"="vol_test3";"StorageSystem"="10.232.206.165"})
```

This example modifies storage footprint of an Oracle Application Volume Resource

```
Set-SmResource
Are you sure you want to modify the resource : 'appVol' ?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend
[?] Help (default is "Y"): Y
Successfully updated the resource

Uid: appVol
SmAppFileStorageGroups : {, , }
IsProtected: False
LastBackupDate :
LastBackupStatus :
Name : appVol
Type : Application Volume
Id : R8092776CF4V1.HNK2.com\appVol
Host : R8092776CF4V1.HNK2.com
UserName :
Passphrase :
Deleted: False
Auth : SMCoreContracts.SmAuth
IsClone: False
CloneLevel : 0
Hosts :
StorageName:
ResourceGroupNames :
PolicyNames:
Key: 0
NsmObjectID: 0
SizeOfSmObject :
```

Example 7: Edit hostname and resource name of an Oracle Application Volume Resource

```
Set-SmResource -HostName 'R809278EA03V1.HNK2.com' -PluginCode 'SCO'
-ResourceName appVolModified -ResourceId R8092776CF4V1.HNK2.com\appVol
```

This example modifies hostname and resource name of an Oracle Application Volume Resource

```
Set-SmResource
    Are you sure you want to modify the resource : 'appVol' ?
    [Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend
[?] Help (default is "Y"): Y
    Successfully updated the resource
    Uid: appVolModified
    SmAppFileStorageGroups : {}
    IsProtected: False
    LastBackupDate :
    LastBackupStatus :
    Name : appVolModified
    Type : Application Volume
    Id : R809278EA03V1.HNK2.com\appVolMo
    Host : R809278EA03V1.HNK2.com
    UserName :
    Passphrase :
    Deleted: False
    Auth : SMCoreContracts.SmAuth
    IsClone: False
    CloneLevel : 0
    Hosts :
    StorageName:
    ResourceGroupNames :
    PolicyNames:
    Key: 0
    NsmObjectID: 0
    SizeOfSmObject :
```

Example 8: Undo soft deletion of an Oracle Application Volume resource

```
Set-SmResource -HostName 'R809278EA03V1.HNK2.com' -PluginCode 'SCO'
-ResourceName appVol1 -UndoDeletion
```

Adds the deleted Oracle Application Volume resource and is available for protection.

Set-SmResourceCredentialName

Set the credential for the SQL instance registered with the SnapCenter Server.

Syntax

```
Set-SmResourceCredentialName [-ResourceAuths] <Hashtable[]>
```

Detailed Description

Set the credential for the SQL instance registered with the SnapCenter Server based on the credential information provided.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ResourceAuths		true	true (ByPropertyName)	

Examples

- Example : Setting the credential for the SQL instance by RunAs ID. -

```
Set-SmResourceCredentialName -ResourceAuths  
@{"CredentialId"="3";"Names"="R708202074BV1\SQL2019";}
```

This example syntax sets the credential for the SQL instance registered with the SnapCenter Server based on the RunAs ID provided.

AppObject Auth

SMCoreContracts.SmObject SMCoreContracts.SmAuth

Set-SmResourceGroup

Modifies a resource group.

Syntax

```
Set-SmResourceGroup [-ArchivedLocators] <Hashtable[]> [-  
ResourceGroupName] <String> [-PluginCode] <PluginCode> [-EnableEmail]  
<> [-EmailPreference] <SmEmailNotificationPreference> [-  
RemoveCustomSnapshot] <> [-BackupServers] <SmBackupServer>
```

Detailed Description

Modifies a resource group. You can modify policies, schedules, verification schedules, and resources associated with the resource group.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ArchivedLocators	Specifies in a hashtable the secondary storage system details for each unique primary storage system resource in the resource group. For example:- ArchivedLocators @{Primary="my_vs1:my_vol_iscsi";Secondary="my_vs1:my_vol_iscsi_SECONDARY"}	false	true (ByPropertyName)	
ResourceGroupName	Specifies the name of the resource group that you want to modify.	true	true (ByPropertyName)	
PluginCode	Specifies the plug-in code of the host for which you are modifying a backup resource group. Valid values are SCSQL, SCW, and SCO.	true	true (ByPropertyName)	
EnableEmail	Specifies whether to enable or disable email.	false	false	
EmailPreference	Specifies when you will receive e-mail notifications. Possible values: Always, Never, OnError, OnErrorOrWarning.	false	false	
RemoveCustomSnapshot		false	true (ByPropertyName)	
BackupArchiveLogsAfterRecentMissingOne	This option is only valid for SCO plugin code. Specifies that you want to backup archive log files, which are created after the most recent missing archive log files and ignore the files created prior to it. If this option is not specified, then all archive log files except the missing archive log files are be backed up.	false	true (ByPropertyName)	
ExcludeArchiveLogPathsFromBackup	This option is only valid for SCO plugin code. Specifies the archive log destinations to be excluded from backup. Archive log files present in the specified destinations will be excluded during log backup. Multiple entries can be specified using comma separated list. For example: -ExcludeArchiveLogPathsFromBackup '/arch/logs/on/local/disk1, '/arch/logs/on/local/disk2'.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
BackupServers		false	true (ByPropertyName)	
Resources	Specifies the list of resources to be associated with the resource group. You must provide the resource information in a hashtable, and it must contain the resource name and type, and the host on which it is located. For example, @{"Host"="localhost","Type"="SQL Database","Names"="Instance\Database"} For instance-level backup @{"Host"="localhost","Type"="SQL Instance","Names"="Instance"} For availability group backup @{"Host"="localhost","Type"="SQL Availability Group","Names"="AG1"} Valid Type values are: SQL Database, SQL Instance, SQL Availability Group. You can include comma-separated values for Names. For Oracle Database, the format is @{"Host"="host.example.com","Oracle Database"="db1,db2,.."}. For Oracle Application Volume, the format is @{"Host"="host.example.com","Application Volume"="appVol1,appVol2,.."}.	true	true (ByPropertyName)	
Description	Specifies an optional description for the new resource group.	false	true (ByPropertyName)	
Tag	Enables you to apply a unique tag to help identify the resource group.	false	true (ByPropertyName)	
Policies	Specifies the list of policies associated with the resource group. Multiple policies can be added as a comma-separated list.	false	true (ByPropertyName)	
SchedulerCredentialName		false	true (ByPropertyName)	
SchedulerInstance	Specifies the SQL Server Instance where the schedule is created and managed. This is mandatory if the policy has SQL scheduler enabled.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
VerificationServers	Specifies the list of verification servers to be associated with the resource group. Multiple verification servers can be added as a comma-separated list. This parameter is only required when you want to verify backups for SnapCenter Plug-in for Microsoft SQL Server resource groups.	false	true (ByPropertyName)	
CustomSnapshotFormat	Specifies that you want to use a custom Snapshot copy naming format. By default, a timestamp is appended to the Snapshot copy name. Valid values for CustomSnapshotFormat are : \$ResourceGroup, \$Policy, \$HostName, \$ScheduleType, \$CustomText	false	true (ByPropertyName)	
CustomText	Specifies the custom text in the custom Snapshot copy naming format.	false	true (ByPropertyName)	
DeleteBackupForDetachedPolicies	Deletes backups for the detached policies.	false	true (ByPropertyName)	
Schedules	Specifies the schedule parameters to be used in the resource group. Schedule parameters can include the policy name, schedule type, schedule start and end times. You can specify multiple schedules in a comma-separated list, for example:- Schedules @{"PolicyName"="BackupPolicy";"ScheduleType"="OneTime"}, @{"PolicyName"="BackupPolicy";"ScheduleType"="Hourly";"StartTime"=" 05/27/2016 6:13 PM";"EndTime"="05/27/2016 6:30 PM"}	false	true (ByPropertyName)	
SchedulerType	Specifies the scheduler type. Possible values are Windows, SQL, None.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
VerificationSchedules	Specifies the verification schedules you want to add to the resource. The verification schedule includes the following parameters:"VerificationType" which defines if and when verification is performed. The following values are available:VERIFY_SCHEDULEDVERIFY_AFTER_BACKUPNONE"ScheduleType" represents the schedule type for the verification."BackupScheduleType" represents the schedule type for the backup-VerificationServers "WIN-DVGQDI73QR6" needs to be provided in the above command if we are creating verification enabled resource group for SCSQL plugin.Example:- VerificationSchedules @{"BackupScheduleType"="Hourly";"DeferredBackupCount"="1";"VerificationType"="VERIFY_SCHEDULED";"VerifyOnSecondary"="true";"BackupPolicyName"="sco_20july";"ScheduleType"="Weekly";"DaysOfTheWeek"="Monday";"StartTime"="20-Jul-16 6:42:12 PM";"EndTime"="25-Jul-16 6:42:12 PM"}	false	true (ByPropertyName)	
ConsistencyGroupSnapshot		false	true (ByPropertyName)	
ConsistencyGroupWafSync		false	true (ByPropertyName)	
ConsistencyGroupTimeout		false	true (ByPropertyName)	
SnapShotCreateCommand		false	true (ByPropertyName)	
UseFileSystemConsistentSnapshot		false	true (ByPropertyName)	
UseSnapcenterWithoutFileSystemConsistency		false	true (ByPropertyName)	
PreAppQuiesceCmd		false	true (ByPropertyName)	
PostAppQuiesceCmd		false	true (ByPropertyName)	
AppQuiesceCmd		false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
AppUnQuiesceCmd		false	true (ByPropertyName)	
PreAppUnQuiesceCmd		false	true (ByPropertyName)	
PostAppUnQuiesceCmd		false	true (ByPropertyName)	
PreExitCmd		false	true (ByPropertyName)	
PreSnapshotCmd		false	true (ByPropertyName)	
PostSnapshotCmd		false	true (ByPropertyName)	
ApplgnoreError		false	true (ByPropertyName)	
UseExternalSnapShot		false	true (ByPropertyName)	
ExternalSnapshotRegex		false	true (ByPropertyName)	
ConfigParams		false	true (ByPropertyName)	

Examples

Example 1: Modifying a custom Snapshot copy format

```
Set-SmResourceGroup -ResourceGroupName PayrollDataset
-CustomSnapshotFormat '$CustomText
$Dataset$Policy$HostName' -CustomText NetApp
```

This example syntax modifies a custom Snapshot copy format.

Example 2: Modifying a HANA custom Snapshot copy format

```
Set-SmResourceGroup -ResourceGroupName "RG1" -PluginCode HANA
-Resources
@{"Host"="hanahost01.testlab.netapp.com";"Uid"="MDC\R71"}
-CustomSnapshotFormat '$CustomText $Dataset$Policy$HostName'
-CustomText NetApp
```

This example syntax modifies a HANA custom Snapshot copy format.

Example 3: Deleting associated backups when detaching a policy from a resource group

```
Set-SmResourceGroup -ResourceGroupName "RG1" -PluginCode SCSQL
-Resources
    @{"Host"="WIN-DVGQDI73QR6";"Type"="SQL Database";"Names"="WIN-
DVGQDI73QR6\INST_SQL12\DB123} -Policy poly_full
    -DeleteBackupForDetachPolicies 1
```

This example syntax modifies a resource group to delete the backups associated with the policy when detaching the policy.

Example 4: Modifying an Oracle Plug-in resource group

```
Set-SmResourceGroup -ResourceGroupName 'mixedRG' -Resources
@(@{"Host"="R809278EA03V1.HNK2.com";"Oracle
Database"="DB11,DB12"},@{"Host"="R8092776CF4V1.HNK2.com";"Application
Volume"="appVol1,appVol3"}) -plugincode 'SCO' -Policies
'appVolPolicyModified'
```

This example syntax modifies the policy and resources of an Oracle Plug-in resource group.

Example 5: Modifying an UnixFileSystems Plug-in resource group

```
Set-SmResourceGroup -ResourceGroupName 'RG_PS_linuxfs201_LVM1_12648'
-Resources
@{"Host"="linuxfs201.gdl.englab.netapp.com";"Type"="UnixFileSystems";"uid"
="/netapp/VGNFS1/LVM1"} -plugincode 'UnixFileSystems' -Policies
'BackupPS_linuxfs201_LVM1_12648,Modified_BackupPS_linuxfs201_LVM1_12648'
```

This example syntax modifies the policy and resources of an UnixFileSystems Plug-in resource group.

```
Tag :
ByPassRunAs : False
Configuration : SMCoreContracts.SmBackupConfiguration
CreationTime: 12/12/2023 8:31:06 AM
CustomSnapshotFormat:
CustomText :
Description : Modifying UFS Resource Group
EmailBody :
EmailFrom :
EmailNotificationPreference :
EmailSMTPServer :
EmailSubject:
EmailTo :
```

```

    EnableAsupOnFailure :
    EnableEmail :
    EnableSysLog:
    HostResourceMaping  : {}
    IsCustomSnapshot:
    LastBackupStatus:
    MaintenanceStatus   : Production
    ModificationTime: 12/12/2023 8:31:06 AM
    PluginProtectionGroupTypes : {UnixFileSystems}
    Policies: {BackupPS_linuxfs201_LVM1_12648,
Modified_BackupPS_linuxfs201_LVM1_12648}
    ProtectionGroupType : Backup
    SchedulerSQLInstance:
    SearchResources : False
    VerificationServer :
    VerificationServerInfo :
    Name: RG_PS_linuxfs201_LVM1_12648
    Type: Group
    Id :
    Host:
    UserName:
    Passphrase :
    Deleted : False
    Auth: SMCoreContracts.SmAuth
    IsClone : False
    CloneLevel : 0
    Hosts :
    StorageName :
    ResourceGroupNames :
    PolicyNames :
    Key : 0
    NsmObjectID : 0
    SizeOfSmObject :

```

Set-SmResourceName

Enables you to set the system name for the specified HANA resource.

Syntax

```

Set-SetSmResourceName [-HostName] <SecureString> [-PluginCode]
<SecureString> [-ResourceId] <SecureString> [-ResourceName]
<SecureString>

```

Detailed Description

Enables you to set the resource name for the specified HANA resource. This cmdlet is applicable to auto discovered SAP-HANA resources only.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostName	Specifies the name or IP of the cluster or standalone host you want to add.	true	false	
PluginCode	Specifies the plug-in code of the host. Valid value is HANA.	true	false	
ResourceId	Unique ID of a HANA resource	true	false	
ResourceName	Specifies the new resource name.	true	false	

Examples

Example 1: Set the Resource Name of HANA resource

```
Set-SmResourceName -HostName "host01213.snapcenter.local" -PluginCode  
HANA -ResourceId "host01213.snapcenter.local\hana\MDC\R70" -ResourceName  
"NewResourceName"
```

This example syntax sets the resource name to the specified value.

Set-SmRole

Modifies an existing role.

Syntax

```
Set-SmRole [-Name] <String> [-Description] <String> [-Permissions]  
<String> [-AssignedUsers] <String> [-AssignedGroups] <String> [-  
SharedObjects] <> [-DeleteSharedObjects] <>
```

Detailed Description

Modifies an existing role. Enables you to modify assigned groups and users to the role, and to modify assigned SnapCenter resource permissions.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Name	Specifies the name of the role you want to modify.	true	true (ByPropertyName)	
Description	Describes the role you want to modify.	false	true (ByPropertyName)	
Permissions	Specifies the permissions for the role: Example: host:read,create,delete,update;dataset:create,update,dashboard,allowUse the format [<SnapCenter Resource Name>:<permission1 name>,<permission2 name>,...];[<SnapCenter Resource Name>...]]Permission settings for multiple SnapCenter resource names must be separated by ","The SnapCenter resource name is DataSet, Policy, Backup, Host, StorageConnection, Clone, Provision, DashBoard, Restore, Reports, Discovery, Plugin_Installation or Migration.The permission name is create, read, update, delete or allow.	false	true (ByPropertyName)	
AssignedUsers	Specifies users to be assigned to the role: Example: domain1\user1,domain2\user2	false	true (ByPropertyName)	
AssignedGroups	Specifies groups to be assigned to the role: Example: domain1\group1,domain2\group2	false	true (ByPropertyName)	
SharedObjects		false	true (ByPropertyName)	
DeleteSharedObjects		false	true (ByPropertyName)	

Examples

Example 1: Modify a role and assigning permissions, users, and groups

```
set-smrole -Name PayrollAppAdmin -Description "Manage payroll backup operations" -Permissions "DashBoard:allow;manageusergroup:allow;Plugin_Installation:read,update;DataSet:create,read,update,delete" -AssignedUsers "sddev\administrator" -AssignedGroups "mva\Administrators"
```

This example syntax modifies an existing role and assigns the specified permissions, users, and groups to the role.

```
Description : Manage payroll backup operations
Name: PayrollAppAdmin
Type:
Id :
Host:
UserName:
Passphrase :
Deleted : False
Auth: SMCoreContracts.SmAuth
IsClone : False
CloneLevel : 0
```

Set-SmSMTPServer

Specifies the SMTP server to use for sending data protection job reports to yourself or to others.

Syntax

```
Set-SmSMTPServer [-SMTPServerName] <String> [-EmailFrom] <String> [-
EmailTo] <String> [-IsSendEmail] <> [-EmailSubject] <String>
```

Detailed Description

Specifies the SMTP server to use for sending data protection job reports to yourself or to others. The settings are applied globally for any SnapCenter job for which you configure email notification.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
SMTPServerName	Specifies the name of the SMTP server.	true	true (ByPropertyName)	
EmailFrom	Specifies the sender's email address. This parameter is required when you configure an SMTP server.	true	true (ByPropertyName)	
EmailTo	Specifies the recipient's email address. This parameter is required when you configure an SMTP server.	true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
IsSendEmail	When specified, sends email to the SMTP server specified. This parameter is optional.	false	false	
EmailSubject	Specifies the subject of the email. This parameter is optional.	false	false	

Examples

Example 1

```
Set-SmSMTPServer smtp.gdl.englab.netapp.com -EmailFrom zhimao@netapp.com
-EmailTo zhimao@netapp.com -IsSendEmail -EmailSubject Hello
```

Set-SmSchedule

Creates a schedule using information you provide and also cleans up secondary backups according to that schedule.

Syntax

```
Set-SmSchedule [-ScheduleInformation] <Hashtable> [-TaskName] <String>
```

Detailed Description

Creates a schedule using information you provide and also cleans up secondary backups according to that schedule.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
ScheduleInformation	Specifies mandatory schedule information in a hashtable.	true	true (ByPropertyName)	
TaskName	Specifies the mandatory task name.	true	true (ByPropertyName)	

Examples

Example 1: Setting a schedule to remove secondary backups

```
Set-SmSchedule -ScheduleInformation
@{"ScheduleType"="Hourly";"StartTime"="10:10 AM" ;"EndTime"="11:00
AM";"RepeatTask_Every_Hour"="00:15"} -TaskName
SnapCenter_RemoveSecondaryBackup
```

This example syntax creates an hourly schedule with the task name SnapCenter_RemoveSecondaryBackup that repeats every 15 minutes.

```
TaskName      : SnapCenter_RemoveSecondaryBackup
Hosts         : {}
StartTime     : 5/14/2017 10:10:00 AM
DaysOfMonth   :
MonthsOfYear  :
DaysInterval  :
DaysOfWeek    :
AllowDefaults : False
ReplaceJobIfExist : False
UserName      :
Password      :
SchedulerType : Hourly
RepeatTask_Every_Hour : 0
IntervalDuration :
EndTime       : 5/14/2017 11:00:00 AM
LocalScheduler: False
AppType       : False
AuthMode      :
SchedulerSQLInstance : SMCoreContracts.SmObject
MonthlyFrequency :
Hour          : 0
Minute        : 0
NodeName      :
ScheduleID    : 0
RepeatTask_Every_Mins : 15
```

Set-SmServerConfig

Updates the SnapCenter Server URL in all or specified plug-in hosts.

Syntax

```
Set-SmServerConfig [-Credential] <PSCredential> [-  
UpdateSMSbaseUrlSwitchParameter] <SwitchParameter> [-HostNamesString]  
<String> [-OverwriteSmsUrlString] <String>
```

Detailed Description

Updates the SnapCenter Server URL in all or specified plug-in hosts.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Credential	Provide user credentials to update SnapCenter Server URL.	true	true (ByPropertyName)	
UpdateSMSbaseUrl	Update SnapCenter Server URL.	true	false	
HostNames	Specify comma separated host names.	false	false	
OverwriteSmsUrl	Overwrites SnapCenter Server URL.	false	false	

Examples

Example 1: Updating SnapCenter Server URL in all the plug-in hosts

```
Set-SmServerConfig -Credential sddev\administrator -UpdateSMSbaseUrl
```

This example updates the SnapCenter Server URL in all the plug-in hosts

```
Name: Configuring for SnapCenter Server URL
Id   : 21
StartTime   : 9/3/2019 5:25:10 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Running
Owner        :
Error        :
Priority      : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 38
ApisJobKey    :
ObjectId      : 0
PluginCode    : NONE
PluginName    : NONE
HostId        : 0
RoleId        :
JobIds        : {}
```

Example 2: Updating SnapCenter Server URL in the specified plug-in hosts

```
Set-SmServerConfig -UpdateSMSbaseUrl -HostNames 10.225.13.94,10.225.13.96
```

This example updates the SnapCenter Server URL in the specified plug-in hosts.

```

Name: Configuring for SnapCenter Server URL
Id : 21
StartTime : 9/3/2019 5:25:10 AM
EndTime :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status : Running
Owner :
Error :
Priority: None
Tasks : {}
ParentJobID : 0
EventId : 0
JobTypeId : 38
ApisJobKey :
ObjectId: 0
PluginCode : NONE
PluginName : NONE
HostId : 0
RoleId :
JobIds : {}

```

Set-SmStorageConnection

Modifies your existing storage system connections.

Syntax

```

Set-SmStorageConnection [-Storage] <String> [-Port] <UInt16> [-
Protocol] <ConnectProtocol> [-Timeout] <Int32> [-Credential]
<PSCredential> [-PreferredIP] <String> [-DisableAsupOnFailure] <> [-
DisableSysLog] <> [-Type] <StorageSystemType> [-NetAppAccountName]
<String> [-CredentialName] <String> [-StorageConnectionId]
<bigint(20)> [-CredentialId] <bigint(20)> [-ResourceGroup] <String>
[-SubscriptionId] <String> [-PlatformType] <String> [-IsSecondary] <>
[-RediscoverSVM] <>

```

Detailed Description

Modifies your existing storage system connections. You must create your storage system connection in advance of performing any provisioning or data protection jobs.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Storage		true	true (ByPropertyName)	
Port	Specifies the port for the storage system connection. 80 is the default port and is used if you omit the Port parameter.	false	true (ByPropertyName)	
Protocol	Specifies the communication protocol you want to use to connect to the storage system. Valid values is: HTTPS.	false	true (ByPropertyName)	
Timeout	Specifies the storage system timeout in seconds.	false	true (ByPropertyName)	
Credential	Specifies your storage system credentials. You must have created valid storage system credentials in advance.	false	true (ByPropertyName)	
PreferredIP	Specifies the preferred IP address for the storage system management or data LIF IP address.	false	true (ByPropertyName)	
DisableAsupOnFailure		false	true (ByPropertyName)	
DisableSysLog		false	true (ByPropertyName)	
Type	Specifies the type of storage.	false	true (ByPropertyName)	
NetAppAccountName	Specifies the Azure NetApp Account name.	false	true (ByPropertyName)	
StorageConnectionId	Specifies the Azure NetApp Account ID.	false	true (ByPropertyName)	
CredentialName	Specifies the Azure NetApp Credential name.	false	true (ByPropertyName)	
CredentialId	Specifies the Azure credential ID.	false	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
ResourceGroup	Specifies the resource group.	false	true (ByPropertyName)	
PlatformType	This optional parameter specifies the SVM platform type for licensing purposes. Possible values are Hardware and Software. Hardware indicates that you are using a FAS or All Flash FAS platform. Software indicates that you are using ONTAP Cloud or ONTAP Select. If you specify Type as ONTAP SVM as the storage connection type, and you do not specify PlatformType, the default value is set to Hardware.	false	true (ByPropertyName)	
IsSecondary		false	true (ByPropertyName)	
RediscoverSVM	This parameter is being deprecated in Snapcenter 6.1 and will no longer be supported in subsequent versions.	false	true (ByPropertyName)	

Examples

Example 1: Modifying a storage system connection

```
Set-SmStorageConnection -SVM 172.17.168.13 -Port 80 -Protocol Http
-Timeout 70
```

This example syntax modifies an existing storage system connection.

cmdlet Set-SmStorageConnection at command pipeline position 1

Supply values for the following parameters:

(Type !? for Help.)

Credential:

Set Storage connection successful

Example 2: Modifying a Azure NetApp Account

```
Set-SmStorageConnection -Type AzureNetAppAccount -StorageConnectionId 1
-NetAppAccountName "azureNetappAccount1_modified" -SubscriptionId
86c6cad7-8a2b-4c90-af3e-ba367c6dee47 -CredentialName "AzureCred1_modified"
-ResourceGroup "azure_rg1_modified"
```

This example modifies an existing Azure NetApp Account.

Example 3: Modifying a Azure NetApp Account

```
Set-SmStorageConnection -Type AzureNetAppAccount -StorageConnectionId 1  
-NetAppAccountName "azureNetappAccount1_modified" -CredentialId 2  
-ResourceGroup "azure_rgl_modified"
```

This example modifies an existing Azure NetApp Account.

Start-SmAuditIntegrityCheck

Triggers integrity check on Audit log files

Syntax

```
Start-SmAuditIntegrityCheck
```

Detailed Description

Triggers integrity check on Audit log files. Raises SnapCenter alert and Sends Email if integrity check fails

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
------	-------------	---------------	----------------	------------------

Examples

Example 1: Start Audit integrity check

```
Start-SmAuditIntegrityCheck
```

This example starts audit integrity check.

```
Name: Audit Log Integrity Check
Id   : 17
StartTime   : 12/14/2022 6:32:03 AM
EndTime    : 12/14/2022 6:32:03 AM
IsCancellable   : False
IsRestartable   : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 100
Description    :
Status        : Completed
```

Stop-SmJob

Stops a job that is in progress.

Syntax

```
Stop-SmJob [-JobId] <Int32>
```

Detailed Description

Stops a job that is in progress.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
JobId	The ID associated with the job you want to stop.	false	false	

Examples

Example 1: Stopping a job

```
Stop-SmJob -JobId 1002
```

This example syntax stops a job for the job ID specified.

Uncatalog-SmBackupWithOracleRMAN

Uncatalog Oracle backup(s).

Syntax

```
Uncatalog-SmBackupWithOracleRMAN [-PluginCode] <PluginCode> [-BackupIds]
<String> [-BackupNames] <String> [-AppObjectId] <String>
```

Detailed Description

Uncatalogs the Oracle Database backup(s) in SnapCenter with Oracle Recovery Manager (RMAN).

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
PluginCode	Specifies the plug-in code of the resource to be cataloged.	true	false	
BackupIds	Specifies the id of backup that need to be uncataloged. Multiple backup ids can be specified in a comma separated list.	false	false	
BackupNames	Specifies the name of the backup that need to be uncataloged. Multiple backup names can be specified in a comma separated list.	false	false	
AppObjectId	Specifies the ID of the application object.	false	true (ByPropertyName)	

Examples

Example 1: Uncataloging a SCO backup using backupId

```
Uncatalog-SmBackupWithOracleRMAN -PluginCode SCO -BackupId 7
```

This example syntax uncatalogs a SCO backup using backupId.

```
Name: Uncataloging Backup(s)
      scspr1894465002_gdl_englab_netapp_com_TSPITRDB_scspr1894465002_08-06-
2020_01.13.03.7681_1
Id   : 48
StartTime   : 8/7/2020 2:11:00 AM
EndTime    :
IsCancellable : False
IsRestartable : False
IsCompleted : False
IsVisible   : True
IsScheduled : False
PercentageCompleted : 0
Description :
Status      : Queued
Owner       :
Error       :
Priority     : None
Tasks       : {}
ParentJobID : 0
EventId     : 0
JobTypeId   : 29
ApisJobKey   :
ObjectId    : 0
PluginCode   : SCO
PluginName   : SnapCenter Plug-in for Oracle Database
HostId      : 0
RoleId      :
JobIds      : {}
```

Example 2: Uncataloging a SCO backup using backupname

```
Uncatalog-SmBackupWithOracleRMAN -PluginCode SCO -BackupName
scspr1894465002_gdl_englab_netapp_com_TSPITRDB_scspr1894465002_08-06-
2020_04.13.23.4083_1
```

This example syntax uncatalogs a SCO backup using backupname.

```
Name: Uncataloging Backup(s)
      scspr1894465002_gdl_englab_netapp_com_TSPITRDB_scspr1894465002_08-06-
2020_04.13.23.4083_1
Id   : 46
StartTime   : 8/7/2020 2:05:40 AM
EndTime    :
IsCancellable : False
IsRestartable : False
IsCompleted  : False
IsVisible    : True
IsScheduled  : False
PercentageCompleted : 0
Description :
Status      : Queued
Owner       :
Error       :
Priority: None
Tasks      : {}
ParentJobID : 0
EventId    : 0
JobTypeId  : 29
ApisJobKey :
ObjectId   : 0
PluginCode  : SCO
PluginName  : SnapCenter Plug-in for Oracle Database
HostId     : 0
RoleId     :
JobIds     : {}
```

Example 3: Uncataloging a SCO backup for the desired database

```
Uncatalog-SmBackupWithOracleRMAN -PluginCode SCO -BackupName rg1_galaxy-
vm134_08-08-2020_15.11.16.3564_0 -AppObjectId 'galaxy-
vm134.gdl.englab.netapp.com\DB14'
```

This example syntax uncatalogs a SCO backup for the desired database.

```
Name: Uncataloging Backup(s)
    rg1_galaxy-vm134_08-08-2020_15.11.16.3564_1
Id   : 50
StartTime   : 8/7/2020 2:10:40 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description    :
Status        : Queued
Owner         :
Error         :
Priority       : None
Tasks        : {}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 29
ApisJobKey    :
ObjectId      : 0
PluginCode    : SCO
PluginName    : SnapCenter Plug-in for Oracle Database
HostId        : 0
RoleId        :
JobIds        : {}
```

Uninstall-SmHostPackage

Uninstalls all host plug-in components from one or more hosts.

Syntax

```
Uninstall-SmHostPackage [-HostNames] <String> [-ApplicationCode]
<PluginCode> [-Force] <>
```

Detailed Description

Uninstalls all host plug-in components from one or more hosts. Because this cmdlet removes all host package components, you must confirm this operation before the uninstall proceeds with either Yes or No. The default is Yes.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostNames	Name of one or more hosts from which you want to uninstall all host package components. Host names must be entered using the format -HostNames @("hostname") when uninstalling from a single host, or -HostNames @("hostname1", "hostname2") when uninstalling from multiple hosts. You can specify the hostname using either the host FQDN or IP address.	true	true (ByPropertyName)	
ApplicationCode	Specifies the application code being uninstalled from the host. The valid values are SCW, SCSQL, SCO, and SCV. For custom plug-ins, enter the name of the custom plug-in. You must specify -ApplicationCode when using Oracle Real Application Clusters (RAC) to ensure that all nodes in the cluster are upgraded. If -ApplicationCode is not specified, the host package is uninstalled from only one RAC node.	false	true (ByPropertyName)	
Force		false	true (ByPropertyName)	
DoNotIncludeCluster Nodes	Specifies that host plug-in packages are not uninstalled on cluster nodes.	false	true (ByPropertyName)	

Examples

Example 1: Uninstalling all host package components from a host

```
Uninstall-SmHostPackage -HostNames @("host2012r2.mycompany.com")
```

This example syntax removes all host package components from the specified host.

Example 2: Uninstalling all host packages from multiple hosts

```
Uninstall-SmHostPackage -HostNames @("sql-1.mycompany.com", "sql-2.mycompany.com")
```

This example syntax uninstalls all host packages from the specified hosts.

Example 3: Uninstalling all host packages from an Oracle RAC

```
Uninstall-SmHostPackage -HostNames host.example.com -ApplicationCode SCO
```

This example syntax uninstalled all host packages from the specified host and uses the SCO application code to ensure that packages on all RAC nodes are uninstalled.

Update-SmBackup

Updates the raw device mapping (RDM) information of a backup.

Syntax

```
Update-SmBackup [-BackupId] <Int64> [-BackupName] <String> [-  
AccessPath] <String> [-DataStoreName] <String> [-RdmFileName]  
<String>
```

Detailed Description

Updates the raw device mapping (RDM) information of a backup.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
BackupId	Specifies the ID of the backup to update.	false	false	
BackupName	Specifies the name of the backup to update.	false	false	
AccessPath	Specifies the RDM file system's drive letter or mount point.	true	false	
DataStoreName	Specifies the datastore of the RDM file at the time of the backup.	true	false	
RdmFileName	Specifies the RDM file path at the time of the backup.	true	false	

Examples

Example 1: Update RDM information to backup

```
Update-SmBackup -BackupId 20 -AccessPath R:\ -DataStoreName "csmdev-SMSQL-ds02"
               -RdmFileName "[csmdev-SMSQL-ds02] csmdev-SMSQL-vm02\csmdev-SMSQL-vm02_1.vmdk"
```

```
Result      : SMCoreContracts.SMResult
TotalCount   : 0
DisplayCount : 0
Context      :
Job          : SMCoreContracts.SmJob
```

Update-SmHostPackage

Updates existing host plug-ins package for one or more specified hosts to the currently available plug-ins package version.

Syntax

```
Update-SmHostPackage [-HostNames] <String> [-SkipPreinstallChecks] <>
[-Force] <>
```

Detailed Description

Updates existing host plug-ins package for one or more specified hosts to the currently available plug-ins package version.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
HostNames	Name of one or more hosts for which you want to update the host package.Specifies the hosts on which you want to update the host package. You can specify one host, or multiple, comma-separated host names.Host names must be entered using the format -HostNames @"(hostname)" when installing to a single host, or -HostNames @"(hostname1", "hostname2") when installing to multiple hosts. You can specify the hostname using either the host FQDN or IP address.	true	true (ByPropertyName)	

Name	Description	Required ?	Pipeline Input	Default Value
SkipPreinstallChecks	Specifies that installation prechecks will not be triggered.	false	true (ByPropertyName)	
Force	Internal switch.	false	true (ByPropertyName)	

Examples

Example 1: Updating the host plug-ins package on a host

```
Update-SmHostPackage -HostNames @("host2012r2.mycompany.com")
```

This example syntax updates an existing host plug-ins package on a host to the currently available version.

Example 2: Updating the host plugin package on multiple hosts

```
Update-SmHostPackage -HostNames @("sql-1.mycompany.com", "sql-2.mycompany.com")
```

This example syntax updates existing host plug-in packages on multiple hosts to the currently available version.

Update-SmServerCluster

Updates the High Availability cluster configuration on the SnapCenter Server

Syntax

```
Update-SmServerCluster [-Credential] <PSCredential> [-ClusterNameString] <String> [-ClusterIPString] <String>
```

Detailed Description

Updates the High Availability cluster configuration on the SnapCenter Server. This can be used to update the cluster name or cluster IP Address.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
Credential	Provides domain user credentials for the user to update High Availability cluster configuration.	true	true (ByPropertyName)	
ClusterName	F5 cluster name.	false	false	
ClusterIP	F5 Cluster IP Address.	true	false	

Examples

Example 1: Updates High Availability cluster configuration on the SnapCenter Server

```
Update-SmServerCluster -Credential sddev\administrator -ClusterName
Sab_Pool_Update -ClusterIP 10.225.231.160
```

This example updates the High Availability cluster configuration on the SnapCenter Server.

```
Name: Modify High Availability for SnapCenter Server Configuration
Id   : 59
StartTime   : 10/7/2019 3:31:55 AM
EndTime    :
IsCancellable   : False
IsRestartable  : False
IsCompleted    : False
IsVisible      : True
IsScheduled    : False
PercentageCompleted : 0
Description   :
Status       : Running
Owner        :
Error        :
Priority      : None
Tasks        : {Update HA Parameters in SC Repository}
ParentJobID   : 0
EventId       : 0
JobTypeId     : 38
ApisJobKey    :
ObjectId      : 0
PluginCode    : NONE
PluginName    : NONE
HostId       : 0
RoleId       :
JobIds        : {}
Monitor the progress of job 59 in the Job Monitor page or by running the
cmdlet: 'Get-SmJobSummaryReport -JobId 59'
```

Upload-SmPluginPackage

Uploads a custom plug-in package to SnapCenter.

Syntax

```
Upload-SmPluginPackage [-FullPath] <String>
```

Detailed Description

A custom-developed plug-in is zipped along with plug-in description file. This zip file is uploaded to SnapCenter and is later pushed to specified host.

Parameters

Name	Description	Required ?	Pipeline Input	Default Value
FullPath	Specifies the path to the custom plug-in zip file.	true	false	

Examples

Example 1: Uploading a plugin from SnapCenter Server

```
Open-SmConnection -Credential nbsdsm\administrator
PS C:\Users\administrator.NBSDSM> Upload-SmPluginPackage
-AbsolutePath c:\Mongo1.zip
```

Uploading Custom named Mongo, version 1.0 from SnapCenter Server Host.

```
Successfully uploaded the plug-in package.
CustomPluginName: Mongo
CustomPluginVersion : 1.0
CustomPluginType: Mongo
OsInfo : SMCoreContracts.SmOperatingSystemInfo
Resources : {SMCoreContracts.SmSCCustomResourceType}
RequireFileSystemPlugin : False
UploadedFileName: Mongo_1.0.zip
```

Example 2: Uploading a plugin from a nonSnapCenter Server Windows host

```
Upload-SmPluginPackage -AbsolutePath c:\customplugin\MongoDB_1.zip
-UserCredential nbsdsm\administrator
```

This example syntax uploads a custom plug-in named MongoDB, version 1.0 from a non-SnapCenter Server Windows Host.

```
Successfully uploaded the plug-in package.
CustomPluginName: MongoDB
CustomPluginVersion : 1.0
CustomPluginType: Perl
OsInfo : SMCoreContracts.SmOperatingSystemInfo
Resources : {SMCoreContracts.SmSCCustomResourceType}
RequireFileSystemPlugin : False
UploadedFileName: DB2_1.0.zip
```

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